

GenCore version 5.1.6  
Copyright (c) 1993 - 2005 Compugen Ltd.

OM protein - protein search, using sw model

Run on: March 18, 2005, 23:56:26 ; Search time 43 Seconds  
(without alignments)  
703.090 Million cell updates/sec

Title: US-09-820-095B-2  
Perfect score: 2226  
Sequence: 1 MGSPGATTGWLGLDYKTEK.....TFGWPCPSDTHLPTHSGL 405

Scoring table: BLOSUM62  
Gapop 10.0 , Gapext 0.5

Searched: 513545 seqs, 74649064 residues  
Total number of hits satisfying chosen parameters: 513545

Minimum DB seq length: 0  
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 45 summaries

Database : Issued Patents AA:\*  
1: /cgn2\_6/prodata/1/aaa/5A-COMB.pep:\*  
2: /cgn2\_6/prodata/1/aaa/5B-COMB.pep:\*  
3: /cgn2\_6/prodata/1/aaa/6A-COMB.pep:\*  
4: /cgn2\_6/prodata/1/aaa/6B-COMB.pep:\*  
5: /cgn2\_6/prodata/1/aaa/PTUS-COMB.pep:\*  
6: /cgn2\_6/prodata/1/aaa/backfiles1.pep:\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	2203	99.0	431	US-09-381-681-3	Sequence 3, Appli
2	2203	99.0	441	US-09-191-136-31	Sequence 31, Appli
3	1554	69.8	379	US-09-191-136-32	Sequence 32, Appli
4	822	36.9	422	US-09-949-016-6238	Sequence 6238, Ap
5	816	36.7	388	US-08-742-621-1	Sequence 1, Appli
6	816	36.7	397	US-09-949-016-9419	Sequence 9419, Ap
7	813	36.5	388	US-09-191-608-22	Sequence 22, Appli
8	794	35.7	388	US-08-750-134A-7	Sequence 7, Appli
9	794	35.7	388	US-09-363-745-7	Sequence 7, Appli
10	793	35.6	388	US-09-191-608-23	Sequence 23, Appli
11	744	33.4	399	US-08-742-621-3	Sequence 3, Appli
12	744	33.4	399	US-08-750-134A-11	Sequence 11, Appli
13	744	33.4	399	US-09-363-745-11	Sequence 11, Appli
14	744	33.4	399	US-09-949-016-6236	Sequence 6236, Ap
15	744	33.4	453	US-09-949-016-10007	Sequence 10007, A
16	739	33.2	399	US-08-742-621-4	Sequence 4, Appli
17	739	33.2	399	US-08-750-134A-5	Sequence 5, Appli
18	739	33.2	399	US-09-363-745-5	Sequence 5, Appli
19	720	32.3	472	US-08-742-621-5	Sequence 5, Appli
20	720	32.3	472	US-08-842-079-15	Sequence 15, Appli
21	720	32.3	472	US-09-638-857-15	Sequence 15, Appli
22	709	31.9	471	US-09-191-608-17	Sequence 17, Appli
23	694	31.2	404	US-09-191-608-18	Sequence 18, Appli
24	693	31.1	497	US-09-191-608-20	Sequence 20, Appli
25	679.5	30.5	397	US-08-750-134A-9	Sequence 9, Appli
26	679.5	30.5	397	US-09-363-745-9	Sequence 9, Appli
27	679.5	30.5	397	US-09-191-136-17	Sequence 17, Appli

28	673.5	30.3	397	3	US-09-191-136-16	Sequence 16, Appli
29	673.5	30.3	397	4	US-09-949-016-6237	Sequence 6237, Ap
30	631	28.3	447	3	US-09-191-608-19	Sequence 19, Appli
31	608.5	27.3	595	3	US-08-842-079-18	Sequence 18, Appli
32	608.5	27.3	595	3	US-08-842-079-20	Sequence 20, Appli
33	608.5	27.3	595	4	US-09-638-857-18	Sequence 18, Appli
34	608.5	27.3	595	4	US-09-638-857-20	Sequence 20, Appli
35	606.5	27.2	280	4	US-09-949-016-9249	Sequence 9249, Ap
36	606.5	27.2	280	4	US-09-949-016-9250	Sequence 9250, Ap
37	602.5	27.1	595	3	US-08-842-079-6	Sequence 6, Appli
38	602.5	27.1	595	3	US-08-842-079-17	Sequence 17, Appli
39	602.5	27.1	595	4	US-09-638-857-6	Sequence 6, Appli
40	602.5	27.1	595	4	US-09-638-857-17	Sequence 17, Appli
41	599	26.9	433	4	US-09-949-016-10009	Sequence 10009, A
42	528.5	23.7	256	4	US-09-949-016-7576	Sequence 7576, Ap
43	528.5	23.7	256	4	US-09-949-016-7577	Sequence 7577, Ap
44	515.5	23.2	289	4	US-09-949-016-10585	Sequence 10585, A
45	349	15.7	211	1	US-07-915-934-4	Sequence 4, Appli

ALIGNMENTS

RESULT 1

US-09-381-681-3  
; Sequence 3, Application US/09381681  
; Patent No. 6255472  
; GENERAL INFORMATION:  
; APPLICANT: TAKINO, Takashi  
; APPLICANT: NAKAMURA, Yusuke  
; TITLE OF INVENTION: HUMAN GENES  
; FILE REFERENCE: Q55876  
; CURRENT APPLICATION NUMBER: US/09/381,681  
; CURRENT FILING DATE: 2000-01-10  
; EARLIER APPLICATION NUMBER: JPA 9-093044  
; EARLIER FILING DATE: 1997-03-26  
; NUMBER OF SEQ ID NOS: 9  
; SOFTWARE: PatentIn Ver. 2.1  
; SEQ ID NO 3  
; LENGTH: 431  
; TYPE: PRT  
; ORGANISM: Human  
US-09-381-681-3

Query Match		99.0%	Score 2203;	DB 3;	Length 431;
Best Local Similarity		94.0%	Pred. No. 2.4e-235;		
Matches 405;		Conservative 0;	Mismatches 0;	Indels 26;	Gaps 1;
QY	1	MGSPGATTGWLGLDYKTEK-----	-----WALLAKGYQBRDLE	34	
DB	1	MGSPGATTGWLGLDYKTEKYVTRNWRV	GVGALQRLQLQFGIVVYVVGWALLAKGYQBRDLE	60	
QY	35	POFSIITKLKGVSVTQIKELGNRLMDVAD	FVKPQGENVFELVTFNPLVTPAQVQGRCPH	94	
DB	61	POFSIITKLKGVSVTQIKELGNRLMDVAD	FVKPQGENVFELVTFNPLVTPAQVQGRCPH	120	
QY	95	PSVPLANCWDRDCEPGEGETHSHGVKTC	QCVVFNTHRTCEIWSMCPVSGVPSRPLL	154	
DB	121	PSVPLANCWDRDCEPGEGETHSHGVKTC	QCVVFNTHRTCEIWSMCPVSGVPSRPLL	180	
QY	155	AQAQNTFLIKNTVTFSKFNFSKNALETW	DPYFKHCYEPQFSPYCPVFRIGDLVAKA	214	
DB	181	AQAQNTFLIKNTVTFSKFNFSKNALETW	DPYFKHCYEPQFSPYCPVFRIGDLVAKA	240	
QY	215	GCTFEDLALLGSGVIRVHWDCLDTGDSG	CHPHYSFQLQEKSYNFRTHHWEQGVSA	274	
DB	241	GCTFEDLALLGSGVIRVHWDCLDTGDSG	CHPHYSFQLQEKSYNFRTHHWEQGVSA	300	
QY	275	RTLLKLYGIRPDILVTGQAGKGLPTAVT	LTGTAALGVVTFCCDLLLLLYVDREAHFYW	334	
DB	301	RTLLKLYGIRPDILVTGQAGKGLPTAVT	LTGTAALGVVTFCCDLLLLLYVDREAHFYW	360	
QY	335	RTKYBEAKAPKATANSVVRRELALASQAR	LAECIRSSAPAPTATAAGSQTOTFGWPCPSS	394	

Db 361 RTKYEAKAPKATANSVWRELALASQARLAECIRSSAPAPTATAAGSQTQPGWPCPS 420  
|||||  
Qy 395 DTHLPHSGSL 405  
|||||  
Db 421 DTHLPHSGSL 431  
|||||  
RESULT 2  
US-09-191-136-31  
; Sequence 31, Application US/09191136B  
; Patent No. 6214581  
; GENERAL INFORMATION:  
; APPLICANT: Abbott Laboratories  
; APPLICANT: Lynch, Kevin J.  
; APPLICANT: Burgard, Edward C.  
; APPLICANT: Van Biesen, T.  
; TITLE OF INVENTION: Nucleic Acids Encoding A Functional  
; TITLE OF INVENTION: Human Purinoreceptor P2X3 and P2X6 And Methods Of Production  
; TITLE OF INVENTION: And Use Thereof  
; FILE REFERENCE: 6293.US.P1  
; CURRENT APPLICATION NUMBER: US/09/191,136B  
; EARLIER FILING DATE: 1998-11-13  
; EARLIER FILING DATE: 1998-01-16  
; EARLIER FILING DATE: 1998-01-16  
; EARLIER FILING DATE: 1998-01-16  
; EARLIER FILING DATE: 1998-01-16  
; EARLIER FILING DATE: 1998-01-16  
; NUMBER OF SEQ ID NOS: 32  
; SOFTWARE: FastSeq for Windows Version 3.0  
; SEQ ID NO 31  
; LENGTH: 441  
; TYPE: PRT  
; ORGANISM: Homo sapiens (polypeptide)  
US-09-191-136-31  
Query Match 99.0%; Score 2203; DB 3; Length 441;  
Best Local Similarity 94.0%; Pred. No. 2,5e-235;  
Matches 405; Conservative 0; Mismatches 0; Indels 26; Gaps 1;  
Qy 1 MGSPGATTGWLDDYKTEK-----WALLAKKGYQERDLE 34  
Db 11 MGSPGATTGWLDDYKTEKYVMTNRVGLQRLQFGIVVYVVGWALLAKKGYQERDLE 70  
Qy 35 POFSIITKLKGVSVTQIKELGNRLMDVADFKPPQGENVFFLVTPPAOVQGRCPBH 94  
Db 71 POFSIITKLKGVSVTQIKELGNRLMDVADFKPPQGENVFFLVTPPAOVQGRCPBH 130  
Qy 95 PSVPLANCWVDECPGEGGTHSHGVKTCQCVVFNHGTCTEWSVCPVSGVPSRPL 154  
Db 131 PSVPLANCWVDECPGEGGTHSHGVKTCQCVVFNHGTCTEWSVCPVSGVPSRPL 190  
Qy 155 AQAQNFLLFKNTVFSKFNFSKNALETWDPYFKHCRYEPOFSPYCPVFRIGDLVAKA 214  
Db 191 AQAQNFLLFKNTVFSKFNFSKNALETWDPYFKHCRYEPOFSPYCPVFRIGDLVAKA 250  
Qy 215 GGTFFEDALLGSGVIRVHWDCLDTGDSGCWPHYSFQLOEKSYNFRNTHWHPQGVBA 274  
Db 251 GGTFFEDALLGSGVIRVHWDCLDTGDSGCWPHYSFQLOEKSYNFRNTHWHPQGVBA 310  
Qy 275 RTLLKLYGRFDILVTGQAGKGLIPTAVTLGTGAWLGVVTFPCDILLYVDREAHFYW 334  
Db 311 RTLLKLYGRFDILVTGQAGKGLIPTAVTLGTGAWLGVVTFPCDILLYVDREAHFYW 370  
Qy 335 RTKYEAKAPKATANSVWRELALASQARLAECIRSSAPAPTATAAGSQTQPGWPCPS 394  
Db 371 RTKYEAKAPKATANSVWRELALASQARLAECIRSSAPAPTATAAGSQTQPGWPCPS 430  
Qy 395 DTHLPHSGSL 405  
|||||

Db 431 DTHLPHSGSL 441  
RESULT 3  
US-09-191-136-32  
; Sequence 32, Application US/09191136B  
; Patent No. 6214581  
; GENERAL INFORMATION:  
; APPLICANT: Abbott Laboratories  
; APPLICANT: Lynch, Kevin J.  
; APPLICANT: Burgard, Edward C.  
; APPLICANT: Van Biesen, T.  
; TITLE OF INVENTION: Nucleic Acids Encoding A Functional  
; TITLE OF INVENTION: Human Purinoreceptor P2X3 and P2X6 And Methods Of Production  
; TITLE OF INVENTION: And Use Thereof  
; FILE REFERENCE: 6293.US.P1  
; CURRENT APPLICATION NUMBER: US/09/191,136B  
; EARLIER FILING DATE: 1998-11-13  
; EARLIER FILING DATE: 1998-01-16  
; EARLIER FILING DATE: 1998-01-16  
; EARLIER FILING DATE: 1998-01-16  
; EARLIER FILING DATE: 1998-01-16  
; EARLIER FILING DATE: 1998-01-16  
; NUMBER OF SEQ ID NOS: 32  
; SOFTWARE: FastSeq for Windows Version 3.0  
; SEQ ID NO 32  
; LENGTH: 379  
; TYPE: PRT  
; ORGANISM: Rattus rattus  
US-09-191-136-32  
Query Match 69.8%; Score 1554; DB 3; Length 379;  
Best Local Similarity 75.7%; Pred. No. 2e-163;  
Matches 281; Conservative 26; Mismatches 38; Indels 26; Gaps 1;  
Qy 6 AFTGWLDDYKTEK-----WALLAKKGYQERDLEPQFSI 39  
Db 8 ALVSHGFLLDYKTEKYVMTNRVGLQRLQFGIVVYVVGWALLAKKGYQERDLEPQFSI 67  
Qy 40 ITKLKGVSVTQIKELGNRLMDVADFKPPQGENVFFLVTPPAOVQGRCPHSPVPL 99  
Db 68 ITKLKGVSVTQIKELGNRLMDVADFKPPQGENVFFLVTPPAOVQGRCPHSPVPL 127  
Qy 100 ANCWVDECPGEGGTHSHGVKTCQCVVFNHGTCTEWSVCPVSGVPSRPLAQAON 159  
Db 128 ANCWVDECPGEGGTHSHGVKTCQCVVFNHGTCTEWSVCPVSGVPSRPLAQAON 187  
Qy 160 FTLFTKNTVFSKFNFSKNALETWDPYFKHCRYEPOFSPYCPVFRIGDLVAKAGTPE 219  
Db 188 FTLFTKNTVFSKFNFSKNALETWDPYFKHCRYEPOFSPYCPVFRIGDLVAKAGTPE 247  
Qy 220 DLALGSGVIRVHWDCLDTGDSGCWPHYSFQLOEKSYNFRNTHWHPQGVBAATLLK 279  
Db 248 DLALGSGVIRVHWDCLDTGDSGCWPHYSFQLOEKSYNFRNTHWHPQGVBAATLLK 307  
Qy 280 LYGRFDILVTGQAGKGLIPTAVTLGTGAWLGVVTFPCDILLYVDREAHFYWRTKY 339  
Db 308 LYGRFDILVTGQAGKGLIPTAVTLGTGAWLGVVTFPCDILLYVDREAHFYWRTKY 367  
Qy 340 EAKAPKATANS 350  
Db 368 EAKAPKATANS 378  
RESULT 4  
US-09-949-016-6238  
; Sequence 6238, Application US/09949016  
; Patent No. 6812339  
; GENERAL INFORMATION:  
; APPLICANT: VENTER, J. Craig et al.

;; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED  
;; FILE REFERENCE: WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF  
;; FILE REFERENCE: CL001307  
;; CURRENT APPLICATION NUMBER: US/09/949,016  
;; CURRENT FILING DATE: 2000-04-14  
;; PRIOR APPLICATION NUMBER: 60/241,755  
;; PRIOR FILING DATE: 2000-10-20  
;; PRIOR APPLICATION NUMBER: 60/237,768  
;; PRIOR FILING DATE: 2000-10-03  
;; PRIOR APPLICATION NUMBER: 60/231,498  
;; PRIOR FILING DATE: 2000-09-08  
;; NUMBER OF SEQ ID NOS: 207012  
;; SOFTWARE: FASTSEQ for Windows Version 4.0  
;; SEQ ID NO 6238  
;; LENGTH: 422  
;; TYPE: PRT  
;; ORGANISM: Human  
US-09-949-016-6238

Query Match 36.9%; Score 822; DB 4; Length 422;  
Best Local Similarity 40.3%; Pred. No. 4e-82;  
Matches 173; Conservative 60; Mismatches 120; Indels 76; Gaps 9;  
QY 12 ILDYKTEK-----WALLAKGYOERDLPEQPSIITKLG 45  
DB 13 LPDYKTEKVIANKKVGLLYRLLOASILAYLVVFLIKGGYQVDVTSLOSAVITKVG 72  
QY 46 VSVTQIKELGNLWDVADFKVPPQGNVFLVNTFLVTPAQVQGRCPHPSPVLANCWD 105  
DB 73 VAFNTSDLGQRIWDVADYVIPAQGENVFFVNTLVNQNQVCAENEGIDGNCSD 132  
QY 106 EDCPEGEGTHSHGKVTGCVVFNQTHR-TCEIWSMCPVESGVVPSRPLLAQAQNTFLPI 164  
DB 133 SDCHAGEAVTAGNVKTRCLRGNLARGTCEIFAWCPLTSSRPEPLKEADPTIFI 192  
QY 165 KNTVTPSKNFSKNALETWDTYFKHCYEPQSPYCPVFRIGDLVAKAGTTFEDLALL 224  
DB 193 KNHIREPKFNFSKNVMYDKRSFLKSCFHGPK-NHYCPIFRIGLSIVRWAGSDFOIALR 251  
QY 225 GSGVGRVWDCDLDTGDSGCWPHYSF-LOLEK-----SYNFRATHWQPGVEART 276  
DB 252 GGVIGINIENWCULDKAABECHPHYSFRLDNKLSVSSGYNFRARYRDAAGVEFT 311  
QY 277 LKLYGIRFDILVTGQAGKFLIPTAVTLGTGAALVGVVTFCDLLLVYDREAHFYWRT 336  
DB 312 LMKAYGIRFDVWNGK-----AFFCDLVLIYIKKREPFYDK 349  
QY 337 KYEAKAPKATANSVWRRLALASQARLAECLRRSSAPA-----PTATAGSQ 383  
DB 350 KYEEVRGLDSSQAEDE---ASGLGLSEQL--TSGFGLLGMPEQQLQEPPEAKRGSS 404  
QY 384 TQTPGWPCP 392  
DB 405 QKNGSVCP 413

RESULT 5  
US-08-742-621-1  
; Sequence 1, Application US/08742621  
; Patent No. 5856129  
; GENERAL INFORMATION:  
; APPLICANT: HILLMAN, JENNIFER L.  
; APPLICANT: COLEMAN, ROGER  
; TITLE OF INVENTION: NOVEL HUMAN PURINOCEPTOR  
; NUMBER OF SEQUENCES: 5  
; CORRESPONDENCE ADDRESS:  
; ADDRESS: Incyte Pharmaceuticals, Inc.  
; STREET: 3174 Porter Drive  
; CITY: Palo Alto  
; STATE: CA  
; COUNTRY: US  
; ZIP: 94304  
; COMPUTER READABLE FORM:

;; MEDIUM TYPE: Diskette  
;; COMPUTER: IBM Compatible  
;; OPERATING SYSTEM: DOS  
;; SOFTWARE: FastSEQ Version 1.5  
;; CURRENT APPLICATION DATA:  
;; APPLICATION NUMBER: US/08/742,621  
;; FILING DATE: Filed Herewith  
;; PRIOR APPLICATION DATA:  
;; APPLICATION NUMBER:  
;; FILING DATE:  
;; ATTORNEY/AGENT INFORMATION:  
;; NAME: Billings, Lucy J.  
;; REGISTRATION NUMBER: 36,749  
;; REFERENCE/DOCKET NUMBER: PF-0147 US  
;; TELECOMMUNICATION INFORMATION:  
;; TELEPHONE: 415-855-0555  
;; TELEFAX: 415-845-4166  
;; INFORMATION FOR SEQ ID NO: 1:  
;; SEQUENCE CHARACTERISTICS:  
;; LENGTH: 388 amino acids  
;; TYPE: amino acid  
;; STRANDEDNESS: single  
;; TOPOLOGY: linear  
;; MOLECULE TYPE: peptide  
;; IMMEDIATE SOURCE:  
;; CLONE: consensus  
US-08-742-621-1  
Query Match 36.7%; Score 816; DB 2; Length 388;  
Best Local Similarity 47.0%; Pred. No. 1.6e-81;  
Matches 155; Conservative 56; Mismatches 107; Indels 12; Gaps 4;  
QY 20 WALLAKGYOERDLPEQPSIITKLAGVSVTQIKELGNRLWDVADFKVPPQGENVFLVNT 79  
DB 46 WYFWKEGQVETD-SVSSVTTKVGAVNTSKLGFRIWDVADYVIPAQENSFLVMTN 104  
QY 80 FLVTPAQVQGRCPHPSPVLANCWDVDEDCPEGEGTHSHGKVTGCVVFNQTHRTCEIWS 139  
DB 105 VILTNQNTQGLCEIPDATTV-CKSDASCTAGSAGTHSNGSVTGRCAFNAGSVKTCVAA 163  
QY 140 WCPVESGV-VPSRPLLAQAQNTFLIKNTVTFSKNFSKNALETWDTYFKHCYEPQF 198  
DB 164 WCPVEDDTHVQPAFLKAAENFTLVKNINWYKPNFNSKRNILPNTTTTLYKSCIYDAKT 223  
QY 199 SYCPVFRIGDLVAKAGTFEDLALLGSGVGRVWDCDLDTGDSGCWPHYSFQLE--- 255  
DB 224 DFCPIFRGLKIVENAGHSFQDMAVEGGIMGQVNDNCNLDRAASLCLPRYSFRDLTRD 283  
QY 256 -----KSYNFRATHWQPGVEARTLLKYGIRFDILVTGQAGKFLIPTAVTLGTGA 309  
DB 284 VEHNVSQYGNFRFAKYRDLAGNEQRTLIKAYGIRFDIIVFGKAGKFDIIPMTINIGSGL 343  
QY 310 AMLGWVTFCDLLLVYDREAHFYWRTKYE 339  
DB 344 ALLGMATVLCDIIVLYCMKRLYYREKKYK 373

RESULT 6  
US-09-949-016-9419  
; Sequence 9419, Application US/09949016  
; Patent No. 6812339  
; GENERAL INFORMATION:  
; APPLICANT: VENTER, J. Craig et al.  
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED  
; TITLE OF INVENTION: WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF  
; FILE REFERENCE: CL001307  
; CURRENT APPLICATION NUMBER: US/09/949,016  
; CURRENT FILING DATE: 2000-04-14  
; PRIOR APPLICATION NUMBER: 60/241,755  
; PRIOR FILING DATE: 2000-10-20  
; PRIOR APPLICATION NUMBER: 60/237,768  
; PRIOR FILING DATE: 2000-10-03

;; PRIOR APPLICATION NUMBER: 60/231,498  
;; PRIOR FILING DATE: 2000-09-08  
;; NUMBER OF SEQ ID NOS: 207012  
;; SOFTWARE: FastSeq for Windows Version 4.0  
;; SEQ ID NO 9419  
;; LENGTH: 397  
;; TYPE: PRT  
;; ORGANISM: Human  
US-09-949-016-9419

Query Match 36.7%; Score 816; DB 4; Length 397;  
Best Local Similarity 47.0%; Pred. No. 1.7e-81;  
Matches 155; Conservative 56; Mismatches 107; Indels 12; Gaps 4;

QY 20 WALLAKKGQERDLPEQFSIIITKLKGVSVTQIKELGNRLWDVADFKPPQGENVFLVTN 79  
DB 55 WFWVEKGQETD-SVSSVTTKKGVAVTNTSKLGFRIWDVADYVIPAQENSLSFVTN 113  
QY 80 FLVTPAQVQRCPEHPSPVPLANCWDEDCPEGEGTSHGVKTCQCVFNGTHRTCEIWS 139  
DB 114 VILTMNQGLCPEIPDATTV-CKSDASCTAGSAGTHSGVSTGRCAVFNKSVKCEVAA 172  
QY 140 WCPVESGV-VPSRPLLAQAQNFILFKNTVTFKSNFKNFNALETWDPYFKHCYEPQF 198  
DB 173 WCPVEDDTHVPOPAFLKAAENFTLLVKNNIWPYKFNFKRNILPNTITTYLKSCIYDAKT 232  
QY 199 SPYCPVFRIGDLVAKAGGTFFEDLALGGSVGIRVHWDCLDGTGDSGCWPHYSFQLOE--- 255  
DB 233 DFPCPIFRKLGKIVENAGHGFQDMAVEGGIMGLQVNWDCNLDRAASLCPLPRYFRRLDTRD 292  
QY 256 -----KSYNFRATATHWEQPCVEARTLLKLYGIRFDILVTGQAGKFGILPTAVTLGTGA 309  
DB 293 VEHNVSPGVNFRFAKYRYDLAGNEQRTLIKAYGIRFDIIVFGKAGKFDIIPMTMINIGSGL 352  
QY 310 AWLGVTFFCDLLLLVVDREAHFYWRTKYE 339  
DB 353 ALLGMATVLCIDIIVLYCMKKRLYYREKKYK 382

RESULT 7  
US-09-191-608-22  
; Sequence 22, Application US/09191608  
; Patent No. 6242216  
; GENERAL INFORMATION:  
; APPLICANT: Lynch, Kevin J.  
; APPLICANT: Burchard, Edward C.  
; APPLICANT: Metzger, Randy E.  
; APPLICANT: Niforatos, Wende  
; APPLICANT: Touma, Edward B.  
; APPLICANT: Van Biesen, T.  
; TITLE OF INVENTION: Nucleic Acids Encoding a Functional  
; TITLE OF INVENTION: Human Purinoceptor P2X2 and P2X4 And Methods of Production  
; FILE REFERENCE: 6394.US.P1  
; CURRENT APPLICATION NUMBER: US/09/191,608  
; CURRENT FILING DATE: 1998-11-13  
; NUMBER OF SEQ ID NOS: 26  
; SOFTWARE: FastSeq for Windows Version 3.0  
; SEQ ID NO 22  
; LENGTH: 388  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-09-191-608-22

Query Match 36.5%; Score 813; DB 3; Length 388;  
Best Local Similarity 47.0%; Pred. No. 3.5e-81;  
Matches 155; Conservative 55; Mismatches 108; Indels 12; Gaps 4;

QY 20 WALLAKKGQERDLPEQFSIIITKLKGVSVTQIKELGNRLWDVADFKPPQGENVFLVTN 79  
DB 46 WFWVEKGQETD-SVSSVTTKKGVAVTNTSKLGFRIWDVADYVIPAQENSLSFVTN 104  
QY 80 FLVTPAQVQRCPEHPSPVPLANCWDEDCPEGEGTSHGVKTCQCVFNGTHRTCEIWS 139

DB 105 VILTMNQGLCPEIPDATTV-CKSDASCTAGSAGTHSGVSTGRCAVFNKSVKCEVAA 163  
QY 140 WCPVESGV-VPSRPLLAQAQNFILFKNTVTFKSNFKNFNALETWDPYFKHCYEPQF 198  
DB 164 WCPVEDDTHVPOPAFLKAAENFTLLVKNNIWPYKFNFKRNILPNTITTYLKSCIYDAKT 223  
QY 199 SPYCPVFRIGDLVAKAGGTFFEDLALGGSVGIRVHWDCLDGTGDSGCWPHYSFQLOE--- 255  
DB 224 DFPCPIFRKLGKIVENAGHGFQDMAVEGGIMGLQVNWDCNLDRAASLCPLPRYFRRLDTRD 283  
QY 256 -----KSYNFRATATHWEQPCVEARTLLKLYGIRFDILVTGQAGKFGILPTAVTLGTGA 309  
DB 284 VEHNVSPGVNFRFAKYRYDLAGNEQRTLIKAYGIRFDIIVFGKAGKFDIIPMTMINIGSGL 343  
QY 310 AWLGVTFFCDLLLLVVDREAHFYWRTKYE 339  
DB 344 ALLGMATVLCIDIIVLYCMKKRLYYREKKYK 373

RESULT 8  
US-08-750-134A-7  
; Sequence 7, Application US/08750134A  
; Patent No. 5985603  
; GENERAL INFORMATION:  
; APPLICANT: VALERA, SOLEDAD  
; APPLICANT: BUELL, GARY  
; TITLE OF INVENTION: P2X RECEPTORS (PURINOCEPTOR FAMILY)  
; NUMBER OF SEQUENCES: 11  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: NIXON & VANDERHUYE P. C.  
; STREET: 1100 NORTH GLEBE ROAD  
; CITY: ARLINGTON  
; STATE: VIRGINIA  
; COUNTRY: U.S.A.  
; ZIP: 22201-4714  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: PatentIn Release #1.0, Version #1.30  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/750,134A  
; FILING DATE: 22-JAN-1997  
; CLASSIFICATION: 536  
; ATTORNEY/AGENT INFORMATION:  
; NAME: CRAWFORD, ARTHUR C.  
; REGISTRATION NUMBER: 25,327  
; REFERENCE/DOCKET NUMBER: 1430-116  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (703) 816-4006  
; TELEFAX: (703) 816-4100  
; INFORMATION FOR SEQ ID NO: 7:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 388 amino acids  
; TYPE: amino acid  
; TOPOLOGY: linear  
; MOLECULE TYPE: protein  
US-08-750-134A-7

Query Match 35.7%; Score 794; DB 2; Length 388;  
Best Local Similarity 46.7%; Pred. No. 4.4e-79;  
Matches 154; Conservative 55; Mismatches 109; Indels 12; Gaps 4;

QY 20 WALLAKKGQERDLPEQFSIIITKLKGVSVTQIKELGNRLWDVADFKPPQGENVFLVTN 79  
DB 46 WFWVEKGQETD-SVSSVTTKKGVAVTNTSKLGFRIWDVADYVIPAQENSLSFVTN 104  
QY 80 FLVTPAQVQRCPEHPSPVPLANCWDEDCPEGEGTSHGVKTCQCVFNGTHRTCEIWS 139  
DB 105 MIVTVNQSTQCEIPD-KTSDICNSADCTPGSDVTHSSGVTGATGRCVPFNSVKTCEVAA 163  
QY 140 WCPVESGV-VPSRPLLAQAQNFILFKNTVTFKSNFKNFNALETWDPYFKHCYEPQF 198

Db 164 WCPVENDVGPPTAPFLKAAENFTLLVKNINWTPKFNFSKRNILPNITTSYLKSCIYNAQT 223  
QY 199 SPYCPVFRIGDLVAKAGGTFFDLALIGSGVGRVHWDCLDGTGDSGCWPHYSFQLOB--- 255  
Db 224 DFFCFIFRLGTVIGDAGHSFQEMAVEGGIMGIQKWCNLDRAASLCLPRYSFRRLDTRD 283  
QY 256 -----KSYNFRATTHWEQPGVEARTLLKLYGIRPDILVTQOAGKFGLIPTAVTLGTGA 309  
Db 284 LEHNVSPGYNFRFAKYRDLAKGEQRTLTAKYIRFDIIVFGKAGKFDIIPMTINVGSL 343  
QY 310 AWLGWVTFPCDLLLLLYVDREAHFYWRTKYE 339  
Db 344 ALLGVATVCLDVIVLYCMKKYYRDKKYK 373

## RESULT 9

US-09-363-745-7  
; Sequence 7, Application US/09363745  
; Patent No. 6194162  
; GENERAL INFORMATION:  
; APPLICANT: VALERA, SOLEDAD  
; APPLICANT: BUELL, GARY  
; TITLE OF INVENTION: P2X RECEPTORS (PURINOCEPTOR FAMILY)  
; NUMBER OF SEQUENCES: 11  
; CORRESPONDENCE ADDRESS:  
; ADDRESSER: NIXON & VANDERHYE P.C.  
; STREET: 1100 NORTH GLEBE ROAD  
; CITY: ARLINGTON  
; STATE: VIRGINIA  
; COUNTRY: U.S.A.  
; ZIP: 22201-4714  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: Patent In Release #1.0, Version #1.30  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/09/363,745  
; FILING DATE:  
; CLASSIFICATION:  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: 08/750,134  
; FILING DATE:  
; ATTORNEY/AGENT INFORMATION:  
; NAME: CRAWFORD, ARTHUR C.  
; REGISTRATION NUMBER: 25,327  
; REFERENCE/DOCKET NUMBER: 1430-116  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (703) 816-4006  
; TELEFAX: (703) 816-4100  
; INFORMATION FOR SEQ ID NO: 7:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 388 amino acids  
; TYPE: amino acid  
; TOPOLOGY: linear  
; MOLECULE TYPE: protein  
US-09-363-745-7

Query Match 35.7%; Score 794; DB 3; Length 388;  
Best Local Similarity 46.7%; Pred. No. 4.4e-79;  
Matches 154; Conservative 55; Mismatches 109; Indels 12; Gaps 4;

QY 20 WALLAKGYQERDLBPQPSIITKLKGVSVTQIKELGNRLWDVADFVKPPQGENVFLVTN 79  
Db 46 WYFWWEKGYQETD-SVSSVTTKAGVAVTNTSQLGFRINDVADYVIPAQEENSLEFIMTN 104  
QY 80 FLVTPAQVQGRCPHEPSVPLANCWVDEDCPEBGGTHSHGVTKGCVVFNHGTHTCEIWS 139  
Db 105 MIVTVNQSTCPEIPD-KTSCNSDADCTPGSVDTSHSGVATGRCVPFNESVKICEVAA 163  
QY 140 WCPVESGV-VPSRPLLAQONFTLFIKNTVTSKFNFSKNALETWDPYTFKHCRYPEQF 198

## RESULT 11

US-08-742-621-3  
; Sequence 3, Application US/08742621  
; Patent No. 5856129

Db 164 WCPVENDVGPPTAPFLKAAENFTLLVKNINWTPKFNFSKRNILPNITTSYLKSCIYNAQT 223  
QY 199 SPYCPVFRIGDLVAKAGGTFFDLALIGSGVGRVHWDCLDGTGDSGCWPHYSFQLOB--- 255  
Db 224 DFFCFIFRLGTVIGDAGHSFQEMAVEGGIMGIQKWCNLDRAASLCLPRYSFRRLDTRD 283  
QY 256 -----KSYNFRATTHWEQPGVEARTLLKLYGIRPDILVTQOAGKFGLIPTAVTLGTGA 309  
Db 284 LEHNVSPGYNFRFAKYRDLAKGEQRTLTAKYIRFDIIVFGKAGKFDIIPMTINVGSL 343  
QY 310 AWLGWVTFPCDLLLLLYVDREAHFYWRTKYE 339  
Db 344 ALLGVATVCLDVIVLYCMKKYYRDKKYK 373  
RESULT 10  
US-09-191-608-23  
; Sequence 23, Application US/09191608  
; Patent No. 6242216  
; GENERAL INFORMATION:  
; APPLICANT: Lynch, Kevin J.  
; APPLICANT: Burgard, Edward C.  
; APPLICANT: Metzger, Randy G.  
; APPLICANT: Niforatos, Wende  
; APPLICANT: Touma, Edward B.  
; APPLICANT: Van Biesen, T.  
; TITLE OF INVENTION: Nucleic Acids Encoding a Functional  
; TITLE OF INVENTION: Human Purinoceptor P2X2 and P2X4 And Methods Of Production  
; TITLE OF INVENTION: And Use Thereof  
; FILE REFERENCE: 6394.US.P1  
; CURRENT APPLICATION NUMBER: US/09/191,608  
; CURRENT FILING DATE: 1998-11-13  
; NUMBER OF SEQ ID NOS: 26  
; SOFTWARE: FastSeq for Windows Version 3.0  
; SEQ ID NO 23  
; LENGTH: 388  
; TYPE: PRT  
; ORGANISM: Rattus rattus  
US-09-191-608-23

Query Match 35.6%; Score 793; DB 3; Length 388;  
Best Local Similarity 46.7%; Pred. No. 5.7e-79;  
Matches 154; Conservative 55; Mismatches 109; Indels 12; Gaps 4;

QY 20 WALLAKGYQERDLBPQPSIITKLKGVSVTQIKELGNRLWDVADFVKPPQGENVFLVTN 79  
Db 46 WYFWWEKGYQETD-SVSSVTTKAGVAVTNTSQLGFRINDVADYVIPAQEENSLEFIMTN 104  
QY 80 FLVTPAQVQGRCPHEPSVPLANCWVDEDCPEBGGTHSHGVTKGCVVFNHGTHTCEIWS 139  
Db 105 MIVTVNQSTCPEIPD-KTSCNSDADCTPGSVDTSHSGVATGRCVPFNESVKICEVAA 163  
QY 140 WCPVESGV-VPSRPLLAQONFTLFIKNTVTSKFNFSKNALETWDPYTFKHCRYPEQF 198  
Db 164 WCPVENDVGPPTAPFLKAAENFTLLVKNINWTPKFNFSKRNILPNITTSYLKSCIYNAQT 223  
QY 199 SPYCPVFRIGDLVAKAGGTFFDLALIGSGVGRVHWDCLDGTGDSGCWPHYSFQLOB--- 255  
Db 224 DFFCFIFRLGTVIGDAGHSFQEMAVEGGIMGIQKWCNLDRAASLCLPRYSFRRLDTRD 283  
QY 256 -----KSYNFRATTHWEQPGVEARTLLKLYGIRPDILVTQOAGKFGLIPTAVTLGTGA 309  
Db 284 LEHNVSPGYNFRFAKYRDLAKGEQRTLTAKYIRFDIIVFGKAGKFDIIPMTINVGSL 343  
QY 310 AWLGWVTFPCDLLLLLYVDREAHFYWRTKYE 339  
Db 344 ALLGVATVCLDVIVLYCMKKYYRDKKYK 373

```

; GENERAL INFORMATION:
; APPLICANT: COLLEMAN, JENNIFER L.
; APPLICANT: HILMAN, ROGER
; TITLE OF INVENTION: NOVEL HUMAN PURINOCEPTOR
; NUMBER OF SEQUENCES: 5
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Incyte Pharmaceuticals, Inc.
; STREET: 3174 Porter Drive
; CITY: Palo Alto
; STATE: CA
; COUNTRY: US
; ZIP: 94304
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: DOS
; SOFTWARE: FastSeq Version 1.5
; CURRENT APPLICATION DATA: US/08/742,621
; APPLICATION NUMBER: US/08/742,621
; FILING DATE: Filed Herewith
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER:
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Billings, Lucy J.
; REGISTRATION NUMBER: 36,749
; REFERENCE/DOCKET NUMBER: PP-0147 US
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 415-855-0555
; TELEFAX: 415-845-4166
; INFORMATION FOR SEQ ID NO: 3:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 399 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; IMMEDIATE SOURCE:
; LIBRARY: GenBank
; CLONE: 166438
; US-08-742-621-3

```

Query Match	33.4%;	Score	744;	DB	2;	Length	399;
Best Local Similarity	44.0%;	Pred.	No. 1.6e-73;				
Matches	159;	Conservative	56;	Mismatches	128;	Indels	18; Gaps
	9;						
QY	20	WALLAKGYQERDLPEQFSITIKLVGSVQIKELGNRLMDVADFVKPPQGENVFFVLATVN	79				
Db	47	WVFLYKGYQTSS - GLISSVSVKLGUAVTQLPGLGQVMDVADYVFPAGDINSFVVMVN	105				
QY	80	FLVTPAQVQRCPEHPSPVPLANCWVDDCEPGEGBGTHSGVKTGCQCVVFGTGHRTCTIWS	139				
Db	106	FIVTPKQTQCAEHPGGI - CKEDSGCTPGRAKRAQGI RTGCKCVAFNDTVKTCIFG	163				
QY	140	WCBEV - SGVVPSPILLAAQAFNFTLFINKNTVPSKFNFSKNALETWDPVTFKHCRIYBPQ	198				
Db	164	WCBEVDDDDIPRALLUREAFENFTLFIKNSFSFRFKVNRRLNEEVNAAHMKTCFLFKHTL	223				
QY	199	SPYCPVFRIGDLVAKAGCTPEDIALLGSGVGIRVHWDCDLDTGDSGCWPHYSFO - LQEK	256				
Db	224	HPLCPVQLGVYVQESQNFSTLAEKGGVVGITIDWHCDDLHWVRHCRPIYEPHGLVEEK	283				
QY	257	S - - - - YNFRATHWQEPQGVBEARTLLKLYGIRPDILVTQAGAKFGLIPTAVTIGTGAAML	312				
Db	284	NLSPGFNFRFARHVEN - GTNYRHLFKVFGIRPDILVDGKAGRPDIITPTMTTIGSGGIGF	342				
QY	313	GVVTFPCDILLLVVDREAHFY - - WRKYBEAKAPKATANGSVRELALASQA - RLAECLRR	369				
Db	343	GVATVLCDLLLLHILPKRHYYKQKPKYAE DMGFGAAE - - - - RDLAATSTSLGLOENMRT	398				
QY	370	S	370				
Db	399	S	399				

RESULT 12  
US-08-750-134A-11  
; Sequence 11, Application US/08750134A  
; Patent No. 5985603  
; GENERAL INFORMATION:  
; APPLICANT: VALERA, SOLEDAD  
; APPLICANT: BUELL, GARY  
; TITLE OF INVENTION: P2X RECEPTORS (PURINOCEPTOR FAMILY)  
; NUMBER OF SEQUENCES: 11  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: NIXON & VANDERHVE P.C.  
; STREET: 1100 NORTH GLEBE ROAD  
; CITY: ARLINGTON  
; STATE: VIRGINIA  
; COUNTRY: U.S.A.  
; ZIP: 22201-4714  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: PatentIn Release #1.0, Version #1.30  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/750,134A  
; FILING DATE: 22-JAN-1997  
; CLASSIFICATION: 536  
; ATTORNEY/AGENT INFORMATION:  
; NAME: CRAWFORD, ARTHUR C.  
; REGISTRATION NUMBER: 25,327  
; REFERENCE/DOCKET NUMBER: 1430-116  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (703) 816-4006  
; TELEFAX: (703) 816-4100  
; INFORMATION FOR SEQ ID NO: 11:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 399 amino acids  
; TYPE: amino acid  
; TOPOLOGY: linear  
; MOLECULE TYPE: protein  
; PS-08-750-134A-11

Query Match	33.4%;	Score 744;	DB 2;	Length 399;
Best Local Similarity	44.0%;	Pred. No. 1.6e-73;		
Matches	159;	Conservative	56;	Mismatches 128; Indels 18; Gaps 9
Qy	20	WALLAKGYQERDLEPOFSIITKLKGVSVTQIKELGNRLWDVADVPKPOQENVPFLVTN	79	
Db	47	WVFLYKGYQTSS--GLTSSVSVKULGLAVTLPGLGPQVWDVADVPFPAQGDNSFVVMN	105	
Qy	80	FLVTPAQVQRCRPHSPVPIANCWVDEDCPEGEGGTHSGVKTGCQVVFNGTHRTCEIWS	139	
Db	106	FIVTPKQTQGYCAEHPGGI--CKEDSGCTPGAKRKAQGI RTGKCVAFNDVTKCEIFG	163	
Qy	140	WCPVY--SGVPSRPLLAQAQNTFLFKNTVTFSKFNPSKSNALETWDDTYPKHCYEPQF	198	
Db	164	WCPVEVDDIPRPALLREAEFTLFIKNSISFPFRKVNRRNLVSEVNAHMKTCFLFKHTL	223	
Qy	199	SPYCPVFRIGDLVAKAGTGFEDLALLGSGVGIRVHWDCLDLDGSGCWPHYSFQ--LOBK	256	
Db	224	HPLCPVQLGVVQVESQNFSTLAEKGGVGIITDWHCDLDHVRHCRPIYEFHGLYEK	283	
Qy	257	S-----YNFRATHWEPQVEARTLLKLYGIRFOILVTGQAGKGLIPTAVTLTGGAWL	312	
Db	284	NLSPGFNFARHFVEN--GTNYRHLFVFGIRFDILDGKAGKFDIPTMTTIGSGIGIF	342	
Qy	313	GWTFPCDLLLLVVDREAHFY--WRTKYEAKAPKATANSVRELALASQA--RLAECLRR	369	
Db	343	GVATVLCDLLLHLILPRGHYKQKFKYAEWDGFGAAE-----RDLAATSSITGLQENRT	398	
Qy	370	S 370		
Db	399	S 399		

```
RESULT 13
US-09-363-745-11
; Sequence 11, Application US/09363745
; Patent No. 6194162
; GENERAL INFORMATION:
; APPLICANT: VALERA, SOLEDAD
; APPLICANT: BUELL, GARY
; TITLE OF INVENTION: P2X RECEPTORS (PURINOCEPTOR FAMILY)
; NUMBER OF SEQUENCES: 11
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: NIXON & VANDERHYE P.C.
; STREET: 1100 NORTH GLEBE ROAD
; CITY: ARLINGTON
; STATE: VIRGINIA
; COUNTRY: U.S.A.
; ZIP: 22201-4714
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentin Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/363,745
; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/750,134
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: CRAWFORD, ARTHUR C.
; REGISTRATION NUMBER: 25,327
; REFERENCE/DOCKET NUMBER: 1430-116
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (703) 816-4006
; TELEFAX: (703) 816-4100
; INFORMATION FOR SEQ ID NO: 11:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 399 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-09-363-745-11

Query Match 33.4%; Score 744; DB 3; Length 399;
Best Local Similarity 44.0%; Pred. No. 1.6e-73;
Matches 159; Conservative 56; Mismatches 128; Indels 18; Gaps 9;

QY 20 WALLAKKGQERDLEPQPSIIITKLKGVSVTOIKELGNRLMDVADFKPPQGENVFPLVTN 79
DB 47 WFLYKGYQTSS-GLISSVSVKLGAVTQLPGLGPQVWDVADYVFPAGDNSFVVMTN 105

QY 80 FLVTPAQVQRCPEHPSVPLANCWDEDCPEGEGGTHSHGVTGQCVVFNHRTCEIWS 139
DB 164 WCPVEVDDIPRALUREAENFTLFKNSISPRFKVNRNLVEEVNAAHMTCLFHKTL 223

QY 140 WCPVE-SGVVPSRPLAQNFTLFKNTVTSKFNFSKNALETWDPYFKHCRYEPQF 198
DB 199 SPYCPVFRIGDLVAKAGTTFEDLALGGSGVIRVHWDCLDGTGDSGCMWPHYSFQ--LQEK 256

QY 224 HPLCPVFQGVVYQESGQNFSTLAEKGGVVGITIDWHCDLDWVHRCRPIYEFHGLYEK 283

QY 257 S-----YNFTATHWEPQGVAEARTLLKLYGIRFDILVTQAGKFGLIPTAVTLGTGAWL 312
DB 284 NLSPGNFPRFARHVEN-GTNYRHLFKVFGIRFDILVDGKAGKFDIIPWTIGSGIGIF 342

QY 313 GVVTFFCDLLLYVDREAHFY--WRTKYBEAKAPKATANSVMRELALASQA-RLAECLRR 369
DB 343 GVATVLCDLLLHILPKRHHYKQKPKYAEADMGPGAAE-----RDLAATSTSLGLENMRT 398

QY 370 S 370
DB 399 S 399

RESULT 14
US-09-949-016-6236
; Sequence 6236, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: CL001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; CURRENT FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 6236
; LENGTH: 399
; TYPE: PRT
; ORGANISM: Human
US-09-949-016-6236

Query Match 33.4%; Score 744; DB 4; Length 399;
Best Local Similarity 44.0%; Pred. No. 1.6e-73;
Matches 159; Conservative 56; Mismatches 128; Indels 18; Gaps 9;

QY 20 WALLAKKGQERDLEPQPSIIITKLKGVSVTOIKELGNRLMDVADFKPPQGENVFPLVTN 79
DB 47 WFLYKGYQTSS-GLISSVSVKLGAVTQLPGLGPQVWDVADYVFPAGDNSFVVMTN 105

QY 80 FLVTPAQVQRCPEHPSVPLANCWDEDCPEGEGGTHSHGVTGQCVVFNHRTCEIWS 139
DB 106 FIVTPKQTQGYCAEHPEGGI--CKEDSGCTPGKAKKKAQGIKGVAFNDIVTKTCEIFG 163

QY 140 WCPVE-SGVVPSRPLAQNFTLFKNTVTSKFNFSKNALETWDPYFKHCRYEPQF 198
DB 164 WCPVEVDDIPRALUREAENFTLFKNSISPRFKVNRNLVEEVNAAHMTCLFHKTL 223

QY 199 SPYCPVFRIGDLVAKAGTTFEDLALGGSGVIRVHWDCLDGTGDSGCMWPHYSFQ--LQEK 256
DB 224 HPLCPVFQGVVYQESGQNFSTLAEKGGVVGITIDWHCDLDWVHRCRPIYEFHGLYEK 283

QY 257 S-----YNFTATHWEPQGVAEARTLLKLYGIRFDILVTQAGKFGLIPTAVTLGTGAWL 312
DB 284 NLSPGNFPRFARHVEN-GTNYRHLFKVFGIRFDILVDGKAGKFDIIPWTIGSGIGIF 342

QY 313 GVVTFFCDLLLYVDREAHFY--WRTKYBEAKAPKATANSVMRELALASQA-RLAECLRR 369
DB 343 GVATVLCDLLLHILPKRHHYKQKPKYAEADMGPGAAE-----RDLAATSTSLGLENMRT 398

QY 370 S 370
DB 399 S 399

RESULT 15
US-09-949-016-10007
; Sequence 10007, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: CL001307
; CURRENT APPLICATION NUMBER: US/09/949,016
```





GenCore version 5.1.6  
Copyright (c) 1993 - 2005 Compugen Ltd.

OM protein - protein search, using sw model

Run on: March 18, 2005, 23:57:17 ; Search time 141 Seconds  
(without alignments)  
949.427 Million cell updates/sec

Title: US-09-820-095B-2  
Perfect score: 2226  
Sequence: 1 MGSPGATTGWLDDYKTEK.....TPGWPSPSDTHLPTHSGL 405

Scoring table: BLOSUM62  
Gapop 10.0 , Gapext 0.5

Searched: 1401741 seqs, 330541175 residues

Total number of hits satisfying chosen parameters: 1401741

Minimum DB seq length: 0  
Maximum DB seq length: 2000000000  
Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 45 summaries

- Database : Published Applications\_AA.\*
- 1: /cgn2\_6/ptodata/2/pubpaa/US07\_PUBCOMB.pcp.\*
  - 2: /cgn2\_6/ptodata/2/pubpaa/PCF\_NEW\_PUB.pcp.\*
  - 3: /cgn2\_6/ptodata/2/pubpaa/US06\_NEW\_PUB.pcp.\*
  - 4: /cgn2\_6/ptodata/2/pubpaa/US06\_PUBCOMB.pcp.\*
  - 5: /cgn2\_6/ptodata/2/pubpaa/US07\_NEW\_PUB.pcp.\*
  - 6: /cgn2\_6/ptodata/2/pubpaa/PCFUS\_PUBCOMB.pcp.\*
  - 7: /cgn2\_6/ptodata/2/pubpaa/US08\_NEW\_PUB.pcp.\*
  - 8: /cgn2\_6/ptodata/2/pubpaa/US08\_PUBCOMB.pcp.\*
  - 9: /cgn2\_6/ptodata/2/pubpaa/US09A\_PUBCOMB.pcp.\*
  - 10: /cgn2\_6/ptodata/2/pubpaa/US09B\_PUBCOMB.pcp.\*
  - 11: /cgn2\_6/ptodata/2/pubpaa/US09C\_PUBCOMB.pcp.\*
  - 12: /cgn2\_6/ptodata/2/pubpaa/US10A\_PUBCOMB.pcp.\*
  - 13: /cgn2\_6/ptodata/2/pubpaa/US10B\_PUBCOMB.pcp.\*
  - 14: /cgn2\_6/ptodata/2/pubpaa/US10C\_PUBCOMB.pcp.\*
  - 15: /cgn2\_6/ptodata/2/pubpaa/US10D\_PUBCOMB.pcp.\*
  - 16: /cgn2\_6/ptodata/2/pubpaa/US10E\_PUBCOMB.pcp.\*
  - 17: /cgn2\_6/ptodata/2/pubpaa/US10\_NEW\_PUB.pcp.\*
  - 18: /cgn2\_6/ptodata/2/pubpaa/US11\_NEW\_PUB.pcp.\*
  - 19: /cgn2\_6/ptodata/2/pubpaa/US60\_NEW\_PUB.pcp.\*
  - 20: /cgn2\_6/ptodata/2/pubpaa/US60\_PUBCOMB.pcp.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	2226	100.0	405	10	US-09-820-095-2
2	2203	99.0	431	10	US-09-820-095-4
3	1080.5	48.5	364	15	US-10-051-874-121
4	816	36.7	388	9	US-09-833-082-2
5	816	36.7	388	15	US-10-455-552-2
6	816	36.7	388	17	US-10-482-029-257
7	810	36.4	388	15	US-10-386-414-17
8	744	33.4	399	15	US-10-352-684A-54
9	709	31.9	459	14	US-10-345-680-11
10	709	31.9	459	15	US-10-051-874-123
11	704.5	31.6	397	16	US-10-408-765A-2202
12	694	31.2	404	11	US-09-764-875-905
13	694	31.2	404	15	US-10-051-874-124

14	693	31.1	497	15	US-10-051-874-120	Sequence 120, App
15	673.5	30.3	287	15	US-10-455-552-3	Sequence 3, Appl1
16	631	28.3	447	15	US-10-051-874-121	Sequence 121, App
17	631	28.3	447	15	US-10-051-874-122	Sequence 122, App
18	615	27.6	473	15	US-10-051-874-42	Sequence 42, Appl
19	611.5	27.5	595	16	US-10-408-765A-2166	Sequence 2166, Ap
20	608.5	27.3	595	16	US-10-622-313-1	Sequence 1, Appl1
21	608.5	27.3	595	16	US-10-789-241-40	Sequence 40, Appl
22	606.5	27.2	595	16	US-09-977-221-4	Sequence 4, Appl1
23	606.5	27.2	595	16	US-10-766-978-4	Sequence 4, Appl1
24	593	26.2	348	15	US-10-336-472-52	Sequence 52, Appl
25	545.5	24.5	274	15	US-10-336-472-54	Sequence 54, Appl
26	500	22.5	260	15	US-10-104-047-2151	Sequence 2151, Ap
27	379.5	17.0	280	9	US-09-764-847-739	Sequence 739, App
28	379.5	17.0	280	11	US-09-764-875-1181	Sequence 1181, Ap
29	379.5	17.0	280	14	US-10-092-154-739	Sequence 739, App
30	250	11.2	50	9	US-09-864-761-38753	Sequence 38753, A
31	206	9.3	46	9	US-09-864-761-35496	Sequence 35496, A
32	102	4.6	636	14	US-10-156-761-13432	Sequence 13432, A
33	98.5	4.4	442	15	US-10-425-114-58714	Sequence 58714, A
34	98.5	4.4	3564	15	US-10-016-248-45	Sequence 45, Appl
35	95	4.3	754	15	US-10-108-260A-4450	Sequence 4450, Ap
36	94.5	4.2	394	9	US-09-925-301-1388	Sequence 1388, Ap
37	94.5	4.2	394	15	US-10-264-049-3011	Sequence 3011, Ap
38	94.5	4.2	628	14	US-10-176-847-108	Sequence 108, App
39	94.5	4.2	628	14	US-10-205-823-246	Sequence 246, App
40	94.5	4.2	628	15	US-10-257-021-6	Sequence 6, Appl1
41	94.5	4.2	628	15	US-10-257-021-70	Sequence 70, Appl
42	94.5	4.2	628	16	US-10-789-378-52	Sequence 52, Appl
43	94	4.2	1000	10	US-09-823-187-6	Sequence 6, Appl1
44	93.5	4.2	595	15	US-10-276-774-2369	Sequence 2369, Ap
45	93.5	4.2	2669	15	US-10-016-248-4	Sequence 4, Appl1

ALIGNMENTS

RESULT 1

US-09-820-095-2  
; Sequence 2, Application US/09820095  
; Publication No. US20030233668A1  
; GENERAL INFORMATION:  
; APPLICANT: WEI, Ming-Hui et al  
; TITLE OF INVENTION: ISOLATED HUMAN G-PROTEIN COUPLED  
; TITLE OF INVENTION: RECEPTORS, NUCLEIC ACID MOLECULES ENCODING HUMAN GPCR  
; TITLE OF INVENTION: PROTEINS, AND USES THEREOF  
; FILE REFERENCE: CL001202  
; CURRENT APPLICATION NUMBER: US/09/820, 095  
; CURRENT FILING DATE: 2001-03-29  
; NUMBER OF SEQ ID NOS: 4  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 2  
; LENGTH: 405  
; TYPE: PRT  
; ORGANISM: Human  
US-09-820-095-2

Query Match	100.0%;	Score 2226;	DB 10;	Length 405;
Best Local Similarity	100.0%;	Pred. No. 5.3e-214;		
Matches	405;	Conservative 0;	Mismatches 0;	Indels 0; Gaps 0;
QY	1	MGSPGATTGWLDDYKTEKALLAKKGYQERDLEPQFSIITKLKGVSVTQIKELGNRLWD	60	
Db	1	MGSPGATTGWLDDYKTEKALLAKKGYQERDLEPQFSIITKLKGVSVTQIKELGNRLWD	60	
QY	61	VADFVKPQGVNFFLVNFTVPAQVQGRCEHPSVPLANCWVDBDCPEGEGETTHSHGV	120	
Db	61	VADFVKPQGVNFFLVNFTVPAQVQGRCEHPSVPLANCWVDBDCPEGEGETTHSHGV	120	
QY	121	KTGQCVVFNTHRTCEIWSVCSVPSVPSRLLAQANFTLPIKNTVTFSEKFNFSKNA	180	
Db	121	KTGQCVVFNTHRTCEIWSVCSVPSVPSRLLAQANFTLPIKNTVTFSEKFNFSKNA	180	

QY 181 LETWDTPTFKHCYEPQFSPYCPVFRIGDLVAKAGCTFEDLALLGSGVGIRVHWCDDLT 240  
DB |||||  
181 LETWDTPTFKHCYEPQFSPYCPVFRIGDLVAKAGCTFEDLALLGSGVGIRVHWCDDLT 240  
QY 241 GDSGCWPHYSFQLOEKSYNFRATATHWEGVGEARTLLKLYGIRFDILTGTQAGKFGLLP 300  
DB |||||  
241 GDSGCWPHYSFQLOEKSYNFRATATHWEGVGEARTLLKLYGIRFDILTGTQAGKFGLLP 300  
QY 301 TAVTLGTGAWLGVTFDFCDLLLYYDREAHFWRKYBEAKAPKATANSVRELALASQ 360  
DB |||||  
301 TAVTLGTGAWLGVTFDFCDLLLYYDREAHFWRKYBEAKAPKATANSVRELALASQ 360  
QY 361 ARLAECRLRSSAPAPTATAAGSQTQPGWPCSSDTHLPTHSGSL 405  
DB |||||  
361 ARLAECRLRSSAPAPTATAAGSQTQPGWPCSSDTHLPTHSGSL 405

## RESULT 2

US-09-820-095-4

; Sequence 4, Application US/09820095

; Publication No. US20030233668A1

; GENERAL INFORMATION:

; APPLICANT: WEI, Ming-Hui et al

; TITLE OF INVENTION: ISOLATED HUMAN G-PROTEIN COUPLED

; TITLE OF INVENTION: RECEPTORS, NUCLEIC ACID MOLECULES ENCODING HUMAN GPCR

; TITLE OF INVENTION: PROTEINS, AND USES THEREOF

; FILE REFERENCE: CL001202

; CURRENT APPLICATION NUMBER: US/09/820,095

; CURRENT FILING DATE: 2001-03-29

; NUMBER OF SEQ ID NOS: 4

; SOFTWARE: FastSeq for Windows Version 4.0

; SEQ ID NO 4

; LENGTH: 431

; TYPE: PRT

; ORGANISM: Human

US-09-820-095-4

Query Match 99.0%; Score 2203; DB 10; Length 431;  
Best Local Similarity 94.0%; Pred. No. 1.2e-211;  
Matches 405; Conservative 0; Mismatches 0; Indels 26; Gaps 1;

QY 1 MGSFGATTGWLDDYKTEK-----WALLAKKGYQERDLE 34  
DB |||||  
1 MGSFGATTGWLDDYKTEKYNVTRNRVGLQRLQFGIIVVVGWALLAKKGYQERDLE 60  
QY 35 POPSIIITKLKGVSVTQIKELGNRLMDVADPVKPPQGENVFFLVTNPLVTPAQVQRCPEH 94  
DB |||||  
61 POPSIIITKLKGVSVTQIKELGNRLMDVADPVKPPQGENVFFLVTNPLVTPAQVQRCPEH 120  
QY 95 PSVPLANCWVDEDCPEGEGTSHGKVTGQCQVVFNGTHTTCIWSGCPVESGVPVSRPLL 154  
DB |||||  
121 PSVPLANCWVDEDCPEGEGTSHGKVTGQCQVVFNGTHTTCIWSGCPVESGVPVSRPLL 180  
QY 155 AQAQNTLPIKNTVTSKFNFSKNALETWDTPTFKHCYEPQFSPYCPVFRIGDLVAKA 214  
DB |||||  
181 AQAQNTLPIKNTVTSKFNFSKNALETWDTPTFKHCYEPQFSPYCPVFRIGDLVAKA 240  
QY 215 GGTFFDALLGSGVGIRVHWCDDLTGDSGCWPHYSFQLOEKSYNFRATATHWEGVGEA 274  
DB |||||  
241 GGTFFDALLGSGVGIRVHWCDDLTGDSGCWPHYSFQLOEKSYNFRATATHWEGVGEA 300  
QY 275 RTLLKLYGIRFDILTGTGAAGLGVTFDFCDLLLYYDREAHFWRKYBEAKAPKATANSVRELALASQ 334  
DB |||||  
301 RTLLKLYGIRFDILTGTGAAGLGVTFDFCDLLLYYDREAHFWRKYBEAKAPKATANSVRELALASQ 360  
QY 335 RTKYBEAKAPKATANSVRELALASQARLAECRLRSSAPAPTATAAGSQTQPGWPCSS 394  
DB |||||  
361 RTKYBEAKAPKATANSVRELALASQARLAECRLRSSAPAPTATAAGSQTQPGWPCSS 420  
QY 395 DTHLPTHSGSL 405  
DB |||||  
421 DTHLPTHSGSL 431

## RESULT 3

US-10-051-874-125

; Sequence 125, Application US/10051874

; Publication No. US20040005557A1

; GENERAL INFORMATION:

; APPLICANT: Padigar, Muralidhara

; APPLICANT: Alsobrook II, John P

; APPLICANT: Coleman, Steven D

; APPLICANT: Spytek, Kimberly A

; APPLICANT: Boldog, Ferenc

; APPLICANT: Vernet, Corine AM

; APPLICANT: Li, Li

; APPLICANT: Shenoy, Suresh G

; APPLICANT: Casman, Stacie J

; APPLICANT: Guo, Xiaojia Sasha

; APPLICANT: Edinger, Shlomit R

; APPLICANT: MacDougall, John R

; APPLICANT: Malyankar, Uriel M

; APPLICANT: Patturajan, Meera

; APPLICANT: Shinketa, Richard A

; APPLICANT: Pena, Carol EA

; APPLICANT: Tchernev, Velizar T

; APPLICANT: Zerhusen, Bryan D

; APPLICANT: Millet, Isabelle

; APPLICANT: Miller, Charles E

; APPLICANT: Lepley, Denise M

; APPLICANT: Smithson, Glennda

; APPLICANT: Baumgartner, Jason C

; APPLICANT: Herrman, John L

; APPLICANT: Peyman, John A

; APPLICANT: Gorman, Linda

; APPLICANT: Mezes, Peter D

; APPLICANT: Kekuda, Ramesh

; APPLICANT: Taupier Jr, Raymond J

; APPLICANT: Gerlach, Valerie

; APPLICANT: Grosse, William M

; APPLICANT: Liu, Xiaohong

; APPLICANT: Ellerman, Karen

; APPLICANT: Rothenberg, Mark

; APPLICANT: Stone, David J

; APPLICANT: Burgess, Catherine E

; TITLE OF INVENTION: PROTEINS, POLYNUCLEOTIDES ENCODING THEM AND METHODS OF

; TITLE OF INVENTION: USING THE SAME

; FILE REFERENCE: 21402-245

; CURRENT APPLICATION NUMBER: US/10/051,874

; CURRENT FILING DATE: 2002-09-25

; PRIOR APPLICATION NUMBER: 60/268,595

; PRIOR FILING DATE: 2001-02-14

; PRIOR APPLICATION NUMBER: 60/325,306

; PRIOR FILING DATE: 2001-09-27

; PRIOR APPLICATION NUMBER: 60/262,587

; PRIOR FILING DATE: 2001-01-18

; PRIOR APPLICATION NUMBER: 60/272,409

; PRIOR FILING DATE: 2001-02-28

; PRIOR APPLICATION NUMBER: 60/262,454

; PRIOR FILING DATE: 2001-01-18

; PRIOR APPLICATION NUMBER: 60/276,777

; PRIOR FILING DATE: 2001-03-16

; PRIOR APPLICATION NUMBER: 60/291,672

; PRIOR FILING DATE: 2001-05-17

; PRIOR APPLICATION NUMBER: 60/330,336

; PRIOR FILING DATE: 2001-10-18

; PRIOR APPLICATION NUMBER: 60/265,530

; PRIOR FILING DATE: 2001-01-31

; PRIOR APPLICATION NUMBER: 60/261,376

; PRIOR FILING DATE: 2001-01-16

; NUMBER OF SEQ ID NOS: 269

; SOFTWARE: PatentIn Ver. 2.1

; SEQ ID NO 125

; LENGTH: 364

; TYPE: PRT

; ORGANISM: Artificial Sequence

FEATURE:  
; OTHER INFORMATION: Description of Artificial Sequence: P2X\_receptor  
; OTHER INFORMATION: domain sequence  
US-10-051-874-125

Query Match 48.5%; Score 1080.5; DB 15; Length 364;  
Best Local Similarity 56.1%; Pred. No. 2.9e-99;  
Matches 203; Conservative 44; Mismatches 80; Indels 35; Gaps 4;

QY 14 DYKTEK-----WALLAKGYQERDLEPQFSIITKLKGV5 47  
DB 2 DTKPKYVVVRNKKVGLNRLVQLLILVYVGVFLIEKGYQDSLSLOSSVITKVGVA 61

QY 48 VTQIKELGNRLWDVADFKVPPQGENVFFLVITNPLVTPAQVQGRCPHPSVPLANCWVDED 107  
DB 62 VNTSELGNRWVADYVIPPQGENVFFVVTNPTQGTCPHPSVPLANCWVDED 121

QY 108 CPBEGGTHSHGVKQCQVFNGT-HRTCEIWSWCVSVGVPSPRLLAQANFLIFKN 166  
DB 122 CTAGAGTHGNGIKTGRCAVAFNGSVRRTCETIFAWCEVEVDTPNPPLLKEAENFTIFKN 181

QY 167 TVTFKFNFSKNALETWPTVFKHCRYPQFSPYCPVPRIGDLVAKAGGTEDLALLGG 226  
DB 182 SIRPKFNFSKGNLENKTDYTLKCRFHTNDPYCFRLGDVVEKAGQDFDLALKGG 241

QY 227 SVGIRVHWDCLDGTGSGCMPHY5FQ----LOEKS-----YNFRATATHWQPGVEARTIL 278  
DB 242 VIGLIINWDCDLDKAASECNPHYSFRRLDNKKEKSVSPGYNFRFAKYRRDNNNGVEVRTLL 301

QY 279 KUYGIRFDILVTQAGKFGILPTAVTLGCAWLGWVTFPCDILLIYVDREAHFYWRTKY 338  
DB 302 KAYGIRFDVLVNGKAGKFDIIPITINIGSLASLGVTFLCLDILLIYFLKGRHFRYDKKF 361

QY 339 EE 340  
DB 362 EE 363

RESULT 4  
US-09-833-082-2  
; Sequence 2, Application US/09833082  
; Patent No. US20020151480A1  
; GENERAL INFORMATION:  
; APPLICANT: Chun, Miyoung  
; TITLE OF INVENTION: METHODS AND COMPOSITIONS FOR TREATING  
; TITLE OF INVENTION: CARDIOVASCULAR DISEASE USING 10218  
; FILE REFERENCE: MNI-227  
; CURRENT APPLICATION NUMBER: US/09/833,082  
; CURRENT FILING DATE: 2001-04-10  
; NUMBER OF SEQ ID NOS: 2  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 2  
; LENGTH: 388  
; TYPE: PRT  
; ORGANISM: Homo Sapiens  
US-09-833-082-2

Query Match 36.7%; Score 816; DB 9; Length 388;  
Best Local Similarity 47.0%; Pred. No. 1e-72;  
Matches 155; Conservative 56; Mismatches 107; Indels 12; Gaps 4;

QY 20 WALLAKGYQERDLEPQFSIITKLKGVSVTQIKELGNRLWDVADFKVPPQGENVFFLVTN 79  
DB 46 WYFVWEKGYQETD-SVSSSVTTKKGVAVTNTSKLGRFRIWDVADYVIPAQENSLFVMTN 104

QY 80 FLVTPAQVQGRCPHPSVPLANCWVDEDCPBGEGGTHSHGVKQCQVFNTHRTCEIWS 139  
DB 105 VILTWNQTQGLCPETDATTV-CKSDASCTAGSAGTHSNGVSTGRCAVFNKSVKTCVAA 163

QY 140 WCPVESGV-VPSRPLAQANFTLFIKNTVTFKFNFSKNALETWDPYFKHCRYPQF 198  
DB 164 WCPVEDDTHVPPQAFPLKAAENFTLLVKNNTVTFKFNFSKNALETWDPYFKHCRYPQF 223

QY 199 SPYCPVFRIGDLVAKAGGTEDLALLGSGVIRVHWDCLDGTGSGCMPHY5FQLE--- 255  
DB 224 DFFCPIFRILGKIVENAGHSFQDMAVEGGIMGIQVWVNDCLNDRAASLCLPRYSFRRLDTRD 283

QY 256 -----KSYNFRATATHWQPGVEARTILKLYGIRFDILVTQAGKFGILPTAVTLGTCA 309  
DB 284 VEHNVSPGYNFRFAKYRRDLAGNEQRTLIKAYGIRFDIIVFGKAGKFDIIPITMINIGSGL 343

QY 310 AWLGWVTVTFPCDILLIYVDREAHFYWRTKY 339  
DB 344 ALLGMATVLCIDIIVLYCMKRLIYREKKYK 373

RESULT 6  
US-10-482-029-257  
; Sequence 257, Application US/10482029  
; Publication No. US20050037445A1  
; GENERAL INFORMATION:

QY 199 SPYCPVFRIGDLVAKAGGTEDLALLGSGVIRVHWDCLDGTGSGCMPHY5FQLE--- 255  
DB 224 DFFCPIFRILGKIVENAGHSFQDMAVEGGIMGIQVWVNDCLNDRAASLCLPRYSFRRLDTRD 283

QY 256 -----KSYNFRATATHWQPGVEARTILKLYGIRFDILVTQAGKFGILPTAVTLGTCA 309  
DB 284 VEHNVSPGYNFRFAKYRRDLAGNEQRTLIKAYGIRFDIIVFGKAGKFDIIPITMINIGSGL 343

QY 310 AWLGWVTVTFPCDILLIYVDREAHFYWRTKY 339  
DB 344 ALLGMATVLCIDIIVLYCMKRLIYREKKYK 373

RESULT 5  
US-10-455-552-2  
; Sequence 2, Application US/10455552  
; Publication No. US20040018533A1  
; GENERAL INFORMATION:  
; APPLICANT: Adam, Gail Isabel  
; APPLICANT: Langdown, Maria  
; APPLICANT: Roth, Richard  
; APPLICANT: Denissenko, Mikhail  
; APPLICANT: Smylie, Kevin  
; TITLE OF INVENTION: DIAGNOSING PREDISPOSITION TO FAT  
; TITLE OF INVENTION: DEPOSITION AND THERAPEUTIC METHODS FOR REDUCING FAT  
; TITLE OF INVENTION: DEPOSITION AND TREATMENT OF ASSOCIATED CONDITIONS  
; FILE REFERENCE: 52459-20030.00  
; CURRENT APPLICATION NUMBER: US/10/455,552  
; CURRENT FILING DATE: 2003-06-04  
; PRIOR APPLICATION NUMBER: US 60/386,012  
; PRIOR FILING DATE: 2002-06-04  
; NUMBER OF SEQ ID NOS: 98  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 2  
; LENGTH: 388  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-10-455-552-2

Query Match 36.7%; Score 816; DB 15; Length 388;  
Best Local Similarity 47.0%; Pred. No. 1e-72;  
Matches 155; Conservative 56; Mismatches 107; Indels 12; Gaps 4;

QY 20 WALLAKGYQERDLEPQFSIITKLKGVSVTQIKELGNRLWDVADFKVPPQGENVFFLVTN 79  
DB 46 WYFVWEKGYQETD-SVSSSVTTKKGVAVTNTSKLGRFRIWDVADYVIPAQENSLFVMTN 104

QY 80 FLVTPAQVQGRCPHPSVPLANCWVDEDCPBGEGGTHSHGVKQCQVFNTHRTCEIWS 139  
DB 105 VILTWNQTQGLCPETDATTV-CKSDASCTAGSAGTHSNGVSTGRCAVFNKSVKTCVAA 163

QY 140 WCPVESGV-VPSRPLAQANFTLFIKNTVTFKFNFSKNALETWDPYFKHCRYPQF 198  
DB 164 WCPVEDDTHVPPQAFPLKAAENFTLLVKNNTVTFKFNFSKNALETWDPYFKHCRYPQF 223

QY 199 SPYCPVFRIGDLVAKAGGTEDLALLGSGVIRVHWDCLDGTGSGCMPHY5FQLE--- 255  
DB 224 DFFCPIFRILGKIVENAGHSFQDMAVEGGIMGIQVWVNDCLNDRAASLCLPRYSFRRLDTRD 283

QY 256 -----KSYNFRATATHWQPGVEARTILKLYGIRFDILVTQAGKFGILPTAVTLGTCA 309  
DB 284 VEHNVSPGYNFRFAKYRRDLAGNEQRTLIKAYGIRFDIIVFGKAGKFDIIPITMINIGSGL 343

QY 310 AWLGWVTVTFPCDILLIYVDREAHFYWRTKY 339  
DB 344 ALLGMATVLCIDIIVLYCMKRLIYREKKYK 373

```
; APPLICANT: ODIN medical A/S
; TITLE OF INVENTION: Oncology drug innovation
; FILE REFERENCE: P 573 PC00
; CURRENT APPLICATION NUMBER: US/10/482,029
; CURRENT FILING DATE: 2003-12-29
; NUMBER OF SEQ ID NOS: 437
; SOFTWARE: Patentin version 3.1
; SEQ ID NO 257
; LENGTH: 388
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-482-029-257

Query Match          36.7%; Score 816; DB 17; Length 388;
Best Local Similarity 47.0%; Pred. No. 1e-72;
Matches 155; Conservative 56; Mismatches 107; Indels 12; Gaps 4;

QY 20 WALLAKGYQERDLRPPQPSIIITKLKGVSVTQIKELGNRLMDVADVPKPPQGENVFLVTN 79
Db 46 WVFVMEKGYQETD-SVSSVTTTKVGAVAVTNTSKLGFRIWDVADYVIPAQENSLFVMTN 104
QY 80 FLVTPAQVQGRCPHPSPVLANCWDEDCPEGEGTHSHGVKTGCQVFNCTHRTCEIWS 139
Db 105 VILTNWQTQGLCPRIPDATTV-CKSDASCTAGSAGTHSNGVSTGRCAFNKSVKTCXVAA 163
QY 140 WCPVESGV-VPSRPLLAQAQNFITLTKNTVTFKFNFSKNSNALETWDPITYFKHCRIYEPQF 198
Db 164 WCPVEDDTHVQPAFLKAAENFTLLKXNNIWPKNFNSKRNILPNTITTLKSCIYDAKT 223
QY 199 SPYCPVFRIGDLVAKAGTGFEDLALGSGVGIRVHWCDDLTGDSGCWPHYSFQLE--- 255
Db 224 DPFCEIFRLGKIVENAGHSFQDMAVEGGIMGIQVNWDCNLDRAASLCLPRYSFRRLDTRD 283
QY 256 -----KSYNERTATHWWEQPGVEARTLLKLYGIRFDILVTGQAKGFLIPTAVTLGTGA 309
Db 284 VEHNVSPGNFRFAKYRDLAGNEORTLIKAYGIRFDIIVFGKAGKFDIIPMTMINIGSL 343

RESULT 7
US-10-386-414-17
; Sequence 17, Application US/10386414
; Publication No. US20040006016A1
; GENERAL INFORMATION:
; APPLICANT: Kapeller-Libermann, Rosana
; APPLICANT: Robison, Keith E.
; APPLICANT: White, David
; APPLICANT: Williamson, Mark W.
; APPLICANT: Cook, William James
; APPLICANT: Meyers, Rachel E.
; APPLICANT: Macbeth, Kyle J.
; APPLICANT: Carroll, Joseph M.
; APPLICANT: Chun, Miyoung
; TITLE OF INVENTION: NOVEL 27875, 22025, 27420, 17906, 16319.
; FILE REFERENCE: MP103-0210WNIN
; CURRENT APPLICATION NUMBER: US/10/386,414
; CURRENT FILING DATE: 2003-03-11
; PRIOR APPLICATION NUMBER: 09/426,282
; PRIOR FILING DATE: 1999-10-25
; PRIOR APPLICATION NUMBER: 09/668,266
; PRIOR FILING DATE: 2000-09-22
; PRIOR APPLICATION NUMBER: 09/330,970
; PRIOR FILING DATE: 1999-06-11
; PRIOR APPLICATION NUMBER: 09/724,599
; PRIOR FILING DATE: 2000-11-28
; PRIOR APPLICATION NUMBER: 09/860,193
; PRIOR FILING DATE: 2001-05-15
; PRIOR APPLICATION NUMBER: 10/283,023
; PRIOR FILING DATE: 2002-10-29
```

```
; PRIOR APPLICATION NUMBER: 60/335,044
; PRIOR FILING DATE: 2001-10-31
; PRIOR APPLICATION NUMBER: 10/010,943
; PRIOR FILING DATE: 2001-12-06
; PRIOR APPLICATION NUMBER: 60/254,037
; PRIOR FILING DATE: 2000-12-07
; PRIOR APPLICATION NUMBER: 09/833,082
; PRIOR FILING DATE: 2001-04-10
; NUMBER OF SEQ ID NOS: 19
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 17
; LENGTH: 388
; TYPE: PRT
; ORGANISM: Homo Sapien
; FEATURE:
; NAME/KEY: VARIANT
; LOCATION: (1)....(388)
; OTHER INFORMATION: Xaa = Any Amino Acid
US-10-386-414-17

Query Match          36.4%; Score 810; DB 15; Length 388;
Best Local Similarity 46.7%; Pred. No. 4.1e-72;
Matches 154; Conservative 56; Mismatches 108; Indels 12; Gaps 4;

QY 20 WALLAKGYQERDLRPPQPSIIITKLKGVSVTQIKELGNRLMDVADVPKPPQGENVFLVTN 79
Db 46 WVFVMEKGYQETD-SVSSVTTTKVGAVAVTNTSKLGFRIWDVADYVIPAQENSLFVMTN 104
QY 80 FLVTPAQVQGRCPHPSPVLANCWDEDCPEGEGTHSHGVKTGCQVFNCTHRTCEIWS 139
Db 105 VILTNWQTQGLCPRIPDATTV-CKSDASCTAGSAGTHSNGVSTGRCAFNKSVKTCXVAA 163
QY 140 WCPVESGV-VPSRPLLAQAQNFITLTKNTVTFKFNFSKNSNALETWDPITYFKHCRIYEPQF 198
Db 164 WCPVEDDTHVQPAFLKAAENFTLLKXNNIWPKNFNSKRNILPNTITTLKSCIYDAKT 223
QY 199 SPYCPVFRIGDLVAKAGTGFEDLALGSGVGIRVHWCDDLTGDSGCWPHYSFQLE--- 255
Db 224 DPFCEIFRLGKIVENAGHSFQDMAVEGGIMGIQVNWDCNLDRAASLCLPRYSFRRLDTRD 283
QY 256 -----KSYNERTATHWWEQPGVEARTLLKLYGIRFDILVTGQAKGFLIPTAVTLGTGA 309
Db 284 VEHNVSPGNFRFAKYRDLAGNEORTLIKAYGIRFDIIVFGKAGKFDIIPMTMINIGSL 343

RESULT 8
US-10-352-684A-54
; Sequence 54, Application US/10352684A
; Publication No. US20030215452A1
; GENERAL INFORMATION:
; APPLICANT: Millennium Pharmaceuticals Inc.
; APPLICANT: Carroll, Joseph M.
; APPLICANT: Healy, Aileen
; APPLICANT: Weich, Nadine S.
; APPLICANT: Kelly, Louise M.
; TITLE OF INVENTION: METHODS AND COMPOSITIONS FOR TREATING
; TITLE OF INVENTION: HEMATOLOGICAL DISORDERS USING 131, 148, 199, 12303, 13906,
; TITLE OF INVENTION: 15513, 17822, 302, 5677, 194, 14393, 28059, 7366, 12212,
; TITLE OF INVENTION: 1981, 261, 12416, 270, 1410, 137, 1871, 13051, 1847, 1849,
; TITLE OF INVENTION: 15402, 340, 10217, 837, 1761, 8990 OR 13249 MOLECULES
; FILE REFERENCE: MP102-0191RNOMNIN
; CURRENT APPLICATION NUMBER: US/10/352,684A
; CURRENT FILING DATE: 2003-01-28
; PRIOR APPLICATION NUMBER: US 60/354,333
; PRIOR FILING DATE: 2002-02-04
; PRIOR APPLICATION NUMBER: US 60/360,258
; PRIOR FILING DATE: 2002-02-28
; PRIOR APPLICATION NUMBER: US 60/364,476
; PRIOR FILING DATE: 2002-03-15
```

```
; PRIOR APPLICATION NUMBER: US 60/375,626
; PRIOR FILING DATE: 2002-04-26
; PRIOR APPLICATION NUMBER: US 60/386,494
; PRIOR FILING DATE: 2002-06-06
; PRIOR APPLICATION NUMBER: US 60/390,965
; PRIOR FILING DATE: 2002-06-24
; PRIOR APPLICATION NUMBER: US 60/392,480
; PRIOR FILING DATE: 2002-06-28
; PRIOR APPLICATION NUMBER: US 60/394,128
; PRIOR FILING DATE: 2002-07-03
; PRIOR APPLICATION NUMBER: US 60/399,783
; PRIOR FILING DATE: 2002-07-31
; PRIOR APPLICATION NUMBER: US 60/403,221
; PRIOR FILING DATE: 2002-08-13
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 62
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 54
; LENGTH: 399
; TYPE: PRT
; ORGANISM: Homo Sapiens
US-10-352-684A-54

Query Match      33.4%; Score 744; DB 15; Length 399;
Best Local Similarity 44.0%; Pred. No. 1.7e-65;
Matches 159; Conservative 56; Mismatches 128; Indels 18; Gaps 9;

QY 20 WALLAKGYQERDLEPQFSIIITKLKGVSVTOIKELGNRLWDVADFVKPPQGENVFLVTN 79
DB 47 WFLYEKGQTS-GLISSVSKLGLAVTQPLGLPQVMDVADYVFPAGDONSFVMTN 105

QY 80 FLVTPAQVQRCPEHPSVPLANCWDEDCPEGEGGTHSHGVKTGQCVFNGTHRTCEIWS 139
DB 106 FIVTPKQTGYCAEHPEGI--CKEDSGCTPGKAKKKAQIGTKCAVFNFTVKCEIFG 163

QY 140 WCPVR-SGVVPSRPLLAQONTFLTKNTVTSKFNFSKNALETWDPYFKHCYEPQF 198
DB 164 WCPVEVDDIPRALIREAENFTLTKNSISPPRFKVRNRLVEEVNAHMTKCLFHKT 223

QY 199 SPYCPVFRIGDIYAKAGGFEDLALIGSGVGRVHWDCLDTGDCSWPHYSFQ--LQEK 256
DB 224 HPLCPVPQGVVQVSGSQNFSTLAERGGVVGVTIDHWCDDLMVHRCRPIYFHHGLYEBK 283

QY 257 S-----YNFRATATHWMPQGVARTLLKXGIRFDILVTQAGKFGILPTAVTLGTGAWL 312
DB 284 NLSPGENFARHVEN-GTNYRHLFKVFGIRFDILVDGKAGKEDIPTMTTIGSGIGIF 342

QY 313 GVTFPCDLLLYVDREAHFY--WRTKYEEAKAPKATANSVRELAASQA-RLAECLRR 369
DB 343 GVATVLCDLLLHLLPKRHYKQKPKYAEADMGPAAE----RDLAATSTSLGLOENMRT 398

QY 370 S 370
DB 399 S 399

RESULT 9
US-10-345-680-11
; Sequence 11, Application US/10345680
; Publication No. US20030148394A1
; GENERAL INFORMATION:
; APPLICANT: Millennium Pharmaceuticals, Inc.
; APPLICANT: Silos-Santiago, Immaculada
; APPLICANT: Venkateswarlu, Karicheti
; TITLE OF INVENTION: METHODS AND COMPOSITIONS FOR TREATING
; TITLE OF INVENTION: UROLOGICAL DISORDERS USING 1435, 559, 34021, 44099, 25278,
; TITLE OF INVENTION: 641, 260, 55089, 21407, 42032, 46656, 62553, 302, 323,
; TITLE OF INVENTION: 12303, 985, 13237, 13601, 18926, 318, 2058 OR 6351 MOLECULES.
; FILE REFERENCE: MP102-012PIRNM OWN
; CURRENT APPLICATION NUMBER: US/10/345,680
; CURRENT FILING DATE: 2003-01-16
; PRIOR APPLICATION NUMBER: US 60/349,511
; PRIOR FILING DATE: 2002-01-18
```

```
; PRIOR APPLICATION NUMBER: US 60/360,500
; PRIOR FILING DATE: 2002-02-28
; PRIOR APPLICATION NUMBER: US 60/365,041
; PRIOR FILING DATE: 2002-03-15
; PRIOR APPLICATION NUMBER: US 60/374,063
; PRIOR FILING DATE: 2002-04-19
; PRIOR APPLICATION NUMBER: US 60/403,468
; PRIOR FILING DATE: 2002-08-14
; PRIOR APPLICATION NUMBER: US 60/414,262
; PRIOR FILING DATE: 2002-09-27
; PRIOR APPLICATION NUMBER: US 60/419,986
; PRIOR FILING DATE: 2002-10-21
; PRIOR APPLICATION NUMBER: US 60/423,809
; PRIOR FILING DATE: 2002-11-05
; PRIOR APPLICATION NUMBER: US 60/429,797
; PRIOR FILING DATE: 2002-11-26
; NUMBER OF SEQ ID NOS: 66
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 11
; LENGTH: 459
; TYPE: PRT
; ORGANISM: Homo Sapiens
US-10-345-680-11

Query Match      31.9%; Score 709; DB 14; Length 459;
Best Local Similarity 36.9%; Pred. No. 6.8e-62;
Matches 158; Conservative 66; Mismatches 154; Indels 50; Gaps 9;

QY 10 WCLL-DYKTEK-----WALLAKGYQERDLEPQFSIIITK 42
DB 10 WSAWDYETPKVIVVNRRLGLVLYRAVQLLILLYFWVYFVVKSYQSETPESIIITK 69

QY 43 LKGVSVTOIKELGNRLWDVADFVKPPQGENVFLVTNPLVTPAQVQRCPEHPSVPLANC 102
DB 70 VKGIITSE-----HKVMDVEEVKPEGGSVFSIITRVEATHSQGTGCPESIRVHNATC 124

QY 103 WDEDCPEGEGGTHSHGVKTGQCV-VFNGTHRTCEIWSKNCVPSGVSVPSRPLLAQONT 161
DB 125 LSDADCVAGELMDLNGRLTGRCPYQYQSPKTCSEVFGWCPVEDGASVSQFLGTMAPNFT 184

QY 162 LEIKNTVTSKFNFSKNALETWDPYFKHCYEPQFSPYCPVFRIGDIYAKAGGFEDL 221
DB 185 ILIKNSIHYPKFPHFSKGNIAORTD-GYLKRCFTHEASDLICPIFKLGFIVEKAGSFTEL 243

QY 222 ALLGSGVGRVHWDCLDTGDCSWPHYSFQIQE-----KSYNFRATATHWMPQGV 274
DB 244 AHKGGVIGVINWDCDLDPASECNPYSFRFLDPKHVPASSGYNFRFA-KYYKINGTTT 302

QY 275 RFLKXLYGIRFDILVTQAGKFGILPTAVTLGTGAAMLGVVTFPCDLLLYVDREAHFYW 334
DB 303 RTLIKAYGIRIDVIVHGQAGKPSLIPTIINLATALTSVGVGSFLCDWILLTFMKNKQVYS 362

QY 335 RTKYEEAKAPKATANSVRELAASQA-RLAECLRRS--SAPAPTATAAGSQ-----TQT 386
DB 363 HKFKDKVCTPSPHSGSWPVTARVLGQAPPEPHRSEHQHPSPSGQEQGQAECGPAPP 422

QY 387 PGWPCPSS 394
DB 423 PLRCPIS 430

RESULT 10
US-10-051-874-123
; Sequence 123, Application US/10051874
; Publication No. US20040005557A1
; GENERAL INFORMATION:
; APPLICANT: Padigar, Muralidhara
; APPLICANT: Alsobrook II, John P
; APPLICANT: Colman, Steven D
; APPLICANT: Spytek, Kimberly A
; APPLICANT: Boldog, Ferenc
; APPLICANT: Vernet, Corine AM
; APPLICANT: Li, Li
```

```

; APPLICANT: Shenoy, Suresh G
; APPLICANT: Casman, Stacie J
; APPLICANT: Guo, Xiaojia Sasha
; APPLICANT: Edinger, Shlomit R
; APPLICANT: MacDougall, John R
; APPLICANT: Malyankar, Uriel M
; APPLICANT: Patturajan, Meera
; APPLICANT: Shinkets, Richard A
; APPLICANT: Pena, Carol EA
; APPLICANT: Tchernev, Velizar T
; APPLICANT: Zerhusen, Bryan D
; APPLICANT: Millet, Isabelle
; APPLICANT: Miller, Charles E
; APPLICANT: Lepley, Denise M
; APPLICANT: Smithson, Glenda
; APPLICANT: Baumgartner, Jason C
; APPLICANT: Herrman, John L
; APPLICANT: Peyman, John A
; APPLICANT: Gorman, Linda
; APPLICANT: Mezes, Peter D
; APPLICANT: Kekuda, Rameesh
; APPLICANT: Taupier Jr, Raymond J
; APPLICANT: Gerlach, Valerie
; APPLICANT: Grosse, William M
; APPLICANT: Liu, Xiaohong
; APPLICANT: Ellerman, Karen
; APPLICANT: Rothenberg, Mark
; APPLICANT: Stone, David J
; APPLICANT: Burgess, Catherine E
; TITLE OF INVENTION: PROTEINS, POLYNUCLEOTIDES ENCODING THEM AND METHODS OF
; TITLE OF INVENTION: USING THE SAME
; FILE REFERENCE: 21402-245
; CURRENT APPLICATION NUMBER: US/10/051,874
; CURRENT FILING DATE: 2002-09-25
; PRIOR APPLICATION NUMBER: 60/268,595
; PRIOR FILING DATE: 2001-02-14
; PRIOR APPLICATION NUMBER: 60/325,306
; PRIOR FILING DATE: 2001-09-27
; PRIOR APPLICATION NUMBER: 60/262,587
; PRIOR FILING DATE: 2001-01-18
; PRIOR APPLICATION NUMBER: 60/272,409
; PRIOR FILING DATE: 2001-02-28
; PRIOR APPLICATION NUMBER: 60/262,454
; PRIOR FILING DATE: 2001-01-18
; PRIOR APPLICATION NUMBER: 60/276,777
; PRIOR FILING DATE: 2001-03-16
; PRIOR APPLICATION NUMBER: 60/291,672
; PRIOR FILING DATE: 2001-05-17
; PRIOR APPLICATION NUMBER: 60/330,336
; PRIOR FILING DATE: 2001-10-18
; PRIOR APPLICATION NUMBER: 60/265,530
; PRIOR FILING DATE: 2001-01-31
; PRIOR APPLICATION NUMBER: 60/261,376
; PRIOR FILING DATE: 2001-01-16
; NUMBER OF SEQ ID NOS: 269
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 123
; LENGTH: 459
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-051-874-123

Query Match 31.9%; Score 709; DB 15; Length 459;
Best Local Similarity 36.9%; Pred. No. 6.8e-62;
Matches 158; Conservative 66; Mismatches 154; Indels 50; Gaps 9;

QY 10 WGLL-DYKTEK-----WALLAKGYQERDLEPQSIITK 42
Db 10 WSAWDYETPKIVVVRNRRLGVLRYRAVQLLLLYFVWVFIQKSYQSESTGPESSIITK 69
QY 43 LKGVSVTQIKELGNRLWDVADFKPPQGENVFFLVTLNLTVAQVQGRCPHPSPVPLANC 102
Db 70 VKGITISE-----HKVWDVEEVKPPGGSVFSIITRVEATHSQTQGTCPESIRVHNATC 124

; APPLICANT: Ghosh, Soumitra S.
; APPLICANT: Faby, Eoin D.
; APPLICANT: Zhang, Bing
; APPLICANT: Gibson, Bradford W.
; APPLICANT: Taylor, Steven W.
; APPLICANT: Glenn, Gary M.
; APPLICANT: Warnock, Dale E.
; TITLE OF INVENTION: TARGETS FOR THERAPEUTIC INTERVENTION
; TITLE OF INVENTION: IDENTIFIED IN THE MITOCHONDRIAL PROTEOME
; FILE REFERENCE: 660088.465
; CURRENT APPLICATION NUMBER: US/10/408,765A
; CURRENT FILING DATE: 2003-04-04
; NUMBER OF SEQ ID NOS: 3077
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 2202
; LENGTH: 397
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-408-765A-2202

Query Match 31.6%; Score 704.5; DB 16; Length 397;
Best Local Similarity 36.4%; Pred. No. 1.6e-61;
Matches 156; Conservative 58; Mismatches 114; Indels 101; Gaps 11;

QY 12 LLDYKTEK-----WALLAKGYQERDLEPQSIITK 45
Db 13 LFDYKTEKYVIKKNKGVLLYRLAQASILAYLVWVFLIKGYQDVDSLSQSAVITKVG 72
QY 46 VSVTQIKELGNRLWDVADFKPPQGENVFFLVTLNLTVAQVQGRCPHPSPVPLANCWD 105
Db 73 VAFNTSDLGQRIWDVADYVIPAQNE-----GIPDGACSKD 108
QY 106 EDCPEGEGTHSHGKTKQCVVFNQTHR-TCEIWSWCPVSGVWVPSRPLLAQONFTLFI 164
Db 109 SDCHAGEAVTAGNKGKRCRRNLARGTCIEIFAWCDELTSSRPEEFLEKEDFTIFI 168
QY 165 KNTVTFKSNFNSKNALETWDPYFKHCYRYPQSPYCPVFRIGDLVAKAGTFFDL 224
Db 169 KNHIFRFPKFNFS-NNVMDVKDRSFLKSCFHGPK-NHYCPIFRLGSLVIRWAGSDFOIDALE 226
QY 225 GGSVGIHVHWDCCDLDTGSGCWPHYSFQLOEK-----SYNFRATATHWWEQGV 276
Db 70 VKGITISE-----HKVWDVEEVKPPGGSVFSIITRVEATHSQTQGTCPESIRVHNATC 124
```

```

QY 103 WDEDCPEGEGTHSHGKTKQCV-VFNGTHRTCEIWSWCPVSGVWVPSRPLLAQONFT 161
Db 125 LSDADCVAGELDMGLNGRLTGRCPYQSPKTEVFQWCPVEDGASVQFLGTWAPNFT 184
QY 162 LFIKNTVTFKSNFNSKNALETWDPYFKHCYRYPQSPYCPVFRIGDLVAKAGTFFDL 221
Db 185 ILIKNSIHVPKHFHFKSGNIADRTD-GYLKRCRTFHEASDLYCPIPKLGFIVEKAGSFTEL 243
QY 222 ALLGSSVGIHVHWDCCDLDTGSGCWPHYSFQLOE-----KSYNFRATATHWWEQGV 274
Db 244 AHKGGVIGVIIINWDCDLDPASECNPKYSFRRLDPKHVPASSGYNFRFA-KYYKINGTFT 302
QY 275 RTLLKLYGIRFDILVTGQAGKFLIPTAVTLTGTAALWGVVTFPCDLLLLLVVDREAHFYW 334
Db 303 RTLLKAYGIRIDVIVHVGQAGFSLIPTIINLTALTSVGVSGFLCDWILLFMKNKKNYVS 362
QY 335 RTKYEEAKAPKATANSVMRELALASQARLABCLRRS--SAPAPTATAAGSQ-----TQT 386
Db 363 HKKPKVKCTPSHPSGSWPVTTLARVLGQAPPPEPHRSEDPHPSPSGQSGQQAECGPAPP 422
QY 387 PGWPCPSS 394
Db 423 FLRCPGIS 430
```

```

RESULT 11
US-10-408-765A-2202
; Sequence 2202, Application US/10408765A
; Publication No. US20040101874A1
; GENERAL INFORMATION:
; APPLICANT: Ghosh, Soumitra S.
; APPLICANT: Faby, Eoin D.
; APPLICANT: Zhang, Bing
; APPLICANT: Gibson, Bradford W.
; APPLICANT: Taylor, Steven W.
; APPLICANT: Glenn, Gary M.
; APPLICANT: Warnock, Dale E.
; TITLE OF INVENTION: TARGETS FOR THERAPEUTIC INTERVENTION
; TITLE OF INVENTION: IDENTIFIED IN THE MITOCHONDRIAL PROTEOME
; FILE REFERENCE: 660088.465
; CURRENT APPLICATION NUMBER: US/10/408,765A
; CURRENT FILING DATE: 2003-04-04
; NUMBER OF SEQ ID NOS: 3077
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 2202
; LENGTH: 397
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-408-765A-2202
```

```

Query Match 31.6%; Score 704.5; DB 16; Length 397;
Best Local Similarity 36.4%; Pred. No. 1.6e-61;
Matches 156; Conservative 58; Mismatches 114; Indels 101; Gaps 11;

QY 12 LLDYKTEK-----WALLAKGYQERDLEPQSIITK 45
Db 13 LFDYKTEKYVIKKNKGVLLYRLAQASILAYLVWVFLIKGYQDVDSLSQSAVITKVG 72
QY 46 VSVTQIKELGNRLWDVADFKPPQGENVFFLVTLNLTVAQVQGRCPHPSPVPLANCWD 105
Db 73 VAFNTSDLGQRIWDVADYVIPAQNE-----GIPDGACSKD 108
QY 106 EDCPEGEGTHSHGKTKQCVVFNQTHR-TCEIWSWCPVSGVWVPSRPLLAQONFTLFI 164
Db 109 SDCHAGEAVTAGNKGKRCRRNLARGTCIEIFAWCDELTSSRPEEFLEKEDFTIFI 168
QY 165 KNTVTFKSNFNSKNALETWDPYFKHCYRYPQSPYCPVFRIGDLVAKAGTFFDL 224
Db 169 KNHIFRFPKFNFS-NNVMDVKDRSFLKSCFHGPK-NHYCPIFRLGSLVIRWAGSDFOIDALE 226
QY 225 GGSVGIHVHWDCCDLDTGSGCWPHYSFQLOEK-----SYNFRATATHWWEQGV 276
Db 70 VKGITISE-----HKVWDVEEVKPPGGSVFSIITRVEATHSQTQGTCPESIRVHNATC 124
```

Db 227 GGVIININWNCDDKAASECHPHYSFSLDNKLSKSVSSGYNFRFARYRDAAGVERT 286  
QY 277 LKLYGIRFDILVTGQAGFGLIPTAVTLGTGAAMLGVVTVTFCDLLLYVDREAHFYWT 336  
Db 287 LKAYGIRFDVWNGK-----AFCDLVLYLKKREFYDK 324  
QY 337 KYEAKAPKATANSVWRELALASQARLABCLRRSAPA-----PTATAAGSQ 383  
Db 325 KYEEVRGLDSSQEADE---ASGLGLSQL--TSGPGLLGMPEQQLQEPPEAKRGSS 379  
QY 384 TQTPGWPCP 392  
Db 380 QKNGSVCP 388

RESULT 12

US-09-764-875-905  
; Sequence 905, Application US/09764875  
; Publication No. US20040018969A1  
; GENERAL INFORMATION:  
; APPLICANT: Rosen et al.  
; TITLE OF INVENTION: Nucleic Acids, Proteins, and Antibodies  
; FILE REFERENCE: PJ202  
; CURRENT APPLICATION NUMBER: US/09/764,875  
; Prior application data removed - consult PALM or file wrapper  
; NUMBER OF SEQ ID NOS: 1249  
; SOFTWARE: PatentIn Ver. 2.0  
; SEQ ID NO 905  
; LENGTH: 402  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-09-764-875-905

Query Match 31.2%; Score 694; DB 11; Length 402;  
Best Local Similarity 38.8%; Pred. No. 1.8e-60;  
Matches 142; Conservative 63; Mismatches 119; Indels 42; Gaps 7;

QY 10 WGLL-DYKTEK-----WALLAKGYQERDLBPQFSIITK 42  
Db 20 WSLMDYETPKVIVVNRRLGLVLYRAVQLLILLYFWYVFIQKSYQSESTGFSIITK 79  
QY 43 LKGVSVTOIKELGNRLMDVADFKPPQGENVFLVTLVTPAQVQGRCPHPSPVPLANC 102  
Db 80 VKGIITSE-----HKWVDEEVKPPGGSVFSIITRVEATHSQTQCTCPESIRVENATC 134  
QY 103 WYDEDCPEGGTHSHGVGTQCV-VFNGTHRTCEIWSWCPVBSVVPSPRLLAQANFT 161  
Db 135 LSDADCVAGELMDLGNLRTGRCPVYQGFPSKTCVFGWCPVEDGASVSQFLGTWAPNFT 194  
QY 162 LFKNTVTSKFNFSKSNALETWDPYFKHCRYEQFSPYCFRIGDLVAKAGGTFEDL 221  
Db 195 ILIKNSIHPKPHFSKGNADRTD-GYLKRCITHEASDLYCFPLGFIYKAGSGFTSL 253  
QY 222 ALIGGSVGRVHWDCDLDTGDCSCWPHYSFQJQE-----KSYNFRATHWQPGVBA 274  
Db 254 AHKGGVIGVIINWDCDLDPASECNPYKSFRRLLDPKHPVASSGYNRFA-KYKINGTTT 312  
QY 275 RTLLKLYGRFDILVTGQAGKGLIPTAVTLGTGAAMLGVVTVTFCDLLLYVDREAHFYW 334  
Db 313 RTLIKAYGIRIDVIVHGOAGKFSLIPTIINLATLTSVGVGSLCDWILLTFMKNKQVYS 372  
QY 335 RTKYER 340  
Db 373 HKKFDK 378

RESULT 13

US-10-051-874-124  
; Sequence 124, Application US/10051874  
; Publication No. US20040005557A1  
; GENERAL INFORMATION:  
; APPLICANT: Padigaru, Muralidhara

; APPLICANT: Alsobrook II, John P  
; APPLICANT: Colman, Steven D  
; APPLICANT: Spytek, Kimberly A  
; APPLICANT: Boldog, Ferenc  
; APPLICANT: Vernet, Corine AM  
; APPLICANT: Li, Li  
; APPLICANT: Shenoy, Suresh G  
; APPLICANT: Casman, Stacie J  
; APPLICANT: Guo, Xiaojia Sasha  
; APPLICANT: Edinger, Shlomit R  
; APPLICANT: MacDougall, John R  
; APPLICANT: Malyankar, Uriel M  
; APPLICANT: Patturajan, Meera  
; APPLICANT: Shimkets, Richard A  
; APPLICANT: Pena, Carol EA  
; APPLICANT: Tchernev, Velizar T  
; APPLICANT: Zerhusen, Bryan D  
; APPLICANT: Millet, Isabelle  
; APPLICANT: Miller, Charles E  
; APPLICANT: Lepley, Denise M  
; APPLICANT: Smithson, Glennnda  
; APPLICANT: Baumgartner, Jason C  
; APPLICANT: Herrman, John L  
; APPLICANT: Peyman, John A  
; APPLICANT: Gorman, Linda  
; APPLICANT: Mezes, Peter D  
; APPLICANT: Kekuda, Ramesh  
; APPLICANT: Taupier Jr, Raymond J  
; APPLICANT: Gerlach, Valerie  
; APPLICANT: Grosse, William M  
; APPLICANT: Liu, Xiaohong  
; APPLICANT: Ellerman, Karen  
; APPLICANT: Rothenberg, Mark  
; APPLICANT: Stone, David J  
; APPLICANT: Burgess, Catherine E  
; TITLE OF INVENTION: PROTEINS, POLYNUCLEOTIDES ENCODING THEM AND METHODS OF  
; FILE REFERENCE: 21402-245  
; CURRENT APPLICATION NUMBER: US/10/051,874  
; CURRENT FILING DATE: 2002-09-25  
; PRIOR APPLICATION NUMBER: 60/268,595  
; PRIOR FILING DATE: 2001-02-14  
; PRIOR APPLICATION NUMBER: 60/325,306  
; PRIOR FILING DATE: 2001-09-27  
; PRIOR APPLICATION NUMBER: 60/262,587  
; PRIOR FILING DATE: 2001-01-18  
; PRIOR APPLICATION NUMBER: 60/272,409  
; PRIOR FILING DATE: 2001-02-28  
; PRIOR APPLICATION NUMBER: 60/262,454  
; PRIOR FILING DATE: 2001-01-18  
; PRIOR APPLICATION NUMBER: 60/276,777  
; PRIOR FILING DATE: 2001-03-16  
; PRIOR APPLICATION NUMBER: 60/291,672  
; PRIOR FILING DATE: 2001-05-17  
; PRIOR APPLICATION NUMBER: 60/330,336  
; PRIOR FILING DATE: 2001-10-18  
; PRIOR APPLICATION NUMBER: 60/265,530  
; PRIOR FILING DATE: 2001-01-31  
; PRIOR APPLICATION NUMBER: 60/261,376  
; PRIOR FILING DATE: 2001-01-16  
; NUMBER OF SEQ ID NOS: 269  
; SOFTWARE: PatentIn Ver. 2.1  
; SEQ ID NO 124  
; LENGTH: 404  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-10-051-874-124

Query Match 31.2%; Score 694; DB 15; Length 404;  
Best Local Similarity 38.8%; Pred. No. 1.8e-60;  
Matches 142; Conservative 63; Mismatches 119; Indels 42; Gaps 7;

QY 10 WGLL-DYKTEK-----WALLAKGYQERDLBPQFSIITK 42

Db 22 WSALWDYETPKVIVVNRRLGLYRAVQLLLLYFWYVFIWKSQSESGPSSIITK 81  
Qy 43 LKGVSVTOIKELGNRLMDVADFKVPOGNGVFLVNFVTPAQVQGRCPHPSVPLANC 102  
Db 82 VKGIITSE-----HKVMDVEYVKKPEGGSVFSIITRVEATHSQTQGTCPESIRVHNATC 136  
Qy 103 WDEDCPEGEGTHSHGVKTGCY-VFNGTHRTCEIWSWCPVESGVVPSRPLLAQAQNP 161  
Db 137 LSDADCVAGELMDLGNLGRKCVPIYQGPSTCEVFGWCPVEDGASVSQFLGTWAPNFT 196  
Qy 162 LFIKNTVTFKFNFSKNALETWDTPTFYFKHCRYEPQSPYCPVFRIGDLVAKAGTFEDL 221  
Db 197 ILIKNSIHYKPFHFKSGNIADRTD-GYLKRCITFHEASDLYCPIFKLGFIVERKAGESFTEL 255  
Qy 222 ALLGSGVGRVWDCDLDTGDSGCPHYSFQLOE-----KSYNFRTHWHPQVGEA 274  
Db 256 AHKGGVIGVVIINWDCDLDPASECNPKYFRRLDPKHVPASSGYNFRFA-KYYKINGTTT 314  
Qy 275 RTLLKLYGIRFDILVTGQAGKFLIPTAVTLGTGAWLGVVTFPCDILLIYVDREAHFYW 334  
Db 315 RTLIKAYGIRDIVHVGQAGKFSLIPTIINLATALTSVGVSGFLCDWILLTFMKNKNVYS 374  
Qy 335 RTKXEE 340  
Db 375 HKKFDK 380

RESULT 14  
US-10-051-874-120  
; Sequence 120, Application US/10051874  
; Publication No. US20040005557A1  
; GENERAL INFORMATION:  
; APPLICANT: Padigaru, Muralidhara  
; APPLICANT: Alsobrook II, John P  
; APPLICANT: Colman, Steven D  
; APPLICANT: Spytek, Kimberly A  
; APPLICANT: Boldog, Ferenc  
; APPLICANT: Vernet, Corine AM  
; APPLICANT: Li, Li  
; APPLICANT: Shenoy, Suresh G  
; APPLICANT: Casman, Stacie J  
; APPLICANT: Guo, Xiaojia Sasha  
; APPLICANT: Edinger, Shlomit R  
; APPLICANT: MacDougall, John R  
; APPLICANT: Malyankar, Uriel M  
; APPLICANT: Fatturajan, Meera  
; APPLICANT: Shinkets, Richard A  
; APPLICANT: Pena, Carol EA  
; APPLICANT: Tchernev, Velizar T  
; APPLICANT: Zerhusen, Bryan D  
; APPLICANT: Millet, Isabelle  
; APPLICANT: Miller, Charles E  
; APPLICANT: Lepley, Denise M  
; APPLICANT: Smithson, Glennda  
; APPLICANT: Baumgartner, Jason C  
; APPLICANT: Herrman, John L  
; APPLICANT: Peyman, John A  
; APPLICANT: Gorman, Linda  
; APPLICANT: Mezes, Peter D  
; APPLICANT: Kekuda, Ramesh  
; APPLICANT: Taupier Jr, Raymond J  
; APPLICANT: Gerlach, Valerie  
; APPLICANT: Grosse, William M  
; APPLICANT: Liu, Xiaohong  
; APPLICANT: Ellerman, Karen  
; APPLICANT: Rothenberg, Mark  
; APPLICANT: Stone, David J  
; APPLICANT: Burgess, Catherine E  
; TITLE OF INVENTION: PROTEINS, POLYNUCLEOTIDES ENCODING THEM AND METHODS OF  
; FILE REFERENCE: 21402-245  
; CURRENT APPLICATION NUMBER: US/10/051,874

; CURRENT FILING DATE: 2002-09-25  
; PRIOR APPLICATION NUMBER: 60/268,595  
; PRIOR FILING DATE: 2001-02-14  
; PRIOR APPLICATION NUMBER: 60/325,306  
; PRIOR FILING DATE: 2001-09-27  
; PRIOR APPLICATION NUMBER: 60/262,587  
; PRIOR FILING DATE: 2001-01-18  
; PRIOR APPLICATION NUMBER: 60/272,409  
; PRIOR FILING DATE: 2001-02-28  
; PRIOR APPLICATION NUMBER: 60/262,454  
; PRIOR FILING DATE: 2001-01-18  
; PRIOR APPLICATION NUMBER: 60/276,777  
; PRIOR FILING DATE: 2001-03-16  
; PRIOR APPLICATION NUMBER: 60/291,672  
; PRIOR FILING DATE: 2001-05-17  
; PRIOR APPLICATION NUMBER: 60/330,336  
; PRIOR FILING DATE: 2001-10-18  
; PRIOR APPLICATION NUMBER: 60/265,530  
; PRIOR FILING DATE: 2001-01-31  
; PRIOR APPLICATION NUMBER: 60/261,376  
; PRIOR FILING DATE: 2001-01-16  
; NUMBER OF SEQ ID NOS: 269  
; SOFTWARE: Patent in Ver. 2.1  
; SEQ ID NO 120  
; LENGTH: 497  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-10-051-874-120  
Query Match 31.1%; Score 693; DB 15; Length 497;  
Best Local Similarity 35.0%; Pred. No. 3.1e-60;  
Matches 159; Conservative 66; Mismatches 153; Indels 76; Gaps 10;  
Qy 10 WGLL-DYKTEK-----WALLAKGYQDRDLEPQSSIITK 42  
Db 22 WSALWDYETPKVIVVNRRLGLYRAVQLLLLYFWYVFIWKSQSESGPSSIITK 81  
Qy 43 LKGVSVTOIKELGNRLMDVADFKVPOGNGVFLVNFVTPAQVQGRCPHPSVPLANC 102  
Db 82 VKGIITSE-----HKVMDVEYVKKPEGGSVFSIITRVEATHSQTQGTCPESIRVHNATC 136  
Qy 103 WDEDCPEGEGTHSHGVKTGCY-VFNGTHRTCEIWSWCPVESGVVPSRPLLAQAQNP 161  
Db 137 LSDADCVAGELMDLGNLGRKCVPIYQGPSTCEVFGWCPVEDGASVSQFLGTWAPNFT 196  
Qy 162 LFIKNTVTFKFNFSKNALETWDTPTFYFKHCRYEPQSPYCPVFRIGDLVAKAGTFEDL 221  
Db 197 ILIKNSIHYKPFHFKSGNIADRTD-GYLKRCITFHEASDLYCPIFKLGFIVERKAGESFTEL 255  
Qy 222 ALLGSGVGRVWDCDLDTGDSGCPHYSFQLOE-----KSYNFRTHWHPQVGEA 274  
Db 256 AHKGGVIGVVIINWDCDLDPASECNPKYFRRLDPKHVPASSGYNFRFA-KYYKINGTTT 314  
Qy 275 RTLLKLYGIRFDILVTGQAGKFLIPTAVTLGTGAAMLGVV----- 315  
Db 315 RTLIKAYGIRDIVHVGQAGKFSLIPTIINLATALTSVGVNRPLWPGSGCGSTRPLHT 374  
Qy 316 -----TFPCDILLIYVDREAHFYWTKYEAKAPATANSVWRELALAQALAECLR 368  
Db 375 GLCWFGSFLCDWILLTFMKNKNVYSHKKFKDKVCTPSPHSGSWPVTTLARVLGOAPPEPGH 434  
Qy 369 RS--SAPAPTATAAGSQ-----TOTPGWCPSS 394  
Db 435 RSDQHPSPSGQGGQGAECGAPFPPLRCPIS 468  
RESULT 15  
US-10-455-552-3  
; Sequence 3, Application US/10455552  
; Publication No. US2004001853A1  
; GENERAL INFORMATION:  
; APPLICANT: Adam, Gail Isabel  
; APPLICANT: Langdown, Maria



```
; APPLICANT: Roth, Richard
; APPLICANT: Denissenko, Mikhail
; APPLICANT: Smylie, Kevin
; TITLE OF INVENTION: DIAGNOSING PREDISPOSITION TO FAT
; TITLE OF INVENTION: DEPOSITION AND THERAPEUTIC METHODS FOR REDUCING FAT
; TITLE OF INVENTION: DEPOSITION AND TREATMENT OF ASSOCIATED CONDITIONS
; FILE REFERENCE: 52459-20030.00
; CURRENT APPLICATION NUMBER: US/10/455,552
; PRIOR FILING DATE: 2003-06-04
; PRIOR APPLICATION NUMBER: US 60/386,012
; PRIOR FILING DATE: 2002-06-04
; NUMBER OF SEQ ID NOS: 98
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 3
; LENGTH: 287
; TYPE: PRT
; ORGANISM: Homo sapiens
; US-10-455-552-3

Query Match      30.3%; Score 673.5; DB 15; Length 287;
Best Local Similarity 46.2%; Pred. No. 1.3e-58;
Matches 126; Conservative 47; Mismatches 89; Indels 11; Gaps 3;

Qy 77 VTNFLVTPAQVQRCDEHFSVPLANCWDEDCPEGEGGTHSHGVKTCQCVFNGTHRTCE 136
Db 1 MTNVILTMNQGLCPETPDATTV-CKSDASCTAGSAGTHSNGVSTGRCVAFNGSVKTC 59

Qy 137 IWSWCPVBSGV-VPSRPLLAQONFTLTKNTVTFKSNFNSNALETWDPYFKHCRYE 195
Db 60 VAAWCPEDDTHVPQAPFLKAAENFTLLVKNNIWYKFNFSKRNILPNITTTILKSCIYD 119

Qy 196 PQFSPYCPVFRIGDLVAKAGTFEDLALLGGSGVIRVHWDCLDLDGSGCWPHYSFLOE 255
Db 120 AKTDPFCPIFRGLKIVENAGHSQDMAVEGGIMGIQVWDCNLDRAASLCLPRYSFRLD 179

Qy 256 -----KSNFRATHWEOGVEARTLLKLYGIRFDILVTGOAGKGLIPTAVTLG 306
Db 180 TRDVEHNVSPGYNFRFAYRYDLAGNEORTLIKAYGIRFDIIVFGKAGKFDIPTMINIG 239

Qy 307 TGAAMLGVVTFCCDLLLVYDREAHFYWRKYE 339
Db 240 SGLALLGMATVLCDIIVLYCMKKRLYREKKYK 272

Search completed: March 19, 2005, 00:11:48
Job time : 143 secs
```

**This Page Blank (uspto)**

GenCore version 5.1.6  
Copyright (c) 1993 - 2005 Compugen Ltd.

OM nucleic - nucleic search, using sw model

Run on: March 21, 2005, 14:19:42 ; Search time 598.681 Seconds  
(without alignments)

9953.840 Million cell updates/sec

Title: US-09-820-095B-3\_COPY\_9000\_10000

Perfect score: 1001

Sequence: 1 aaaaaccagcctggtcaaca.....ttcacactgttcatcaaaaa 1001

Scoring table: IDENTITY\_NUC

Gapop 10.0 , Gapext 1.0

Searched: 5544816 seqs, 2976611598 residues

Total number of hits satisfying chosen parameters: 11089632

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Published Applications\_NA.\*

- 1: /cgn2\_6/ptodata/1/pubpna/US07\_PUBCOMB.seq.\*
- 2: /cgn2\_6/ptodata/1/pubpna/PCT\_NEW\_PUB.seq.\*
- 3: /cgn2\_6/ptodata/1/pubpna/US06\_NEW\_PUB.seq.\*
- 4: /cgn2\_6/ptodata/1/pubpna/US06\_PUBCOMB.seq.\*
- 5: /cgn2\_6/ptodata/1/pubpna/US07\_NEW\_PUB.seq.\*
- 6: /cgn2\_6/ptodata/1/pubpna/PCTUS\_PUBCOMB.seq.\*
- 7: /cgn2\_6/ptodata/1/pubpna/US08\_NEW\_PUB.seq.\*
- 8: /cgn2\_6/ptodata/1/pubpna/US09A\_PUBCOMB.seq.\*
- 9: /cgn2\_6/ptodata/1/pubpna/US09A\_PUBCOMB.seq.\*
- 10: /cgn2\_6/ptodata/1/pubpna/US09B\_PUBCOMB.seq.\*
- 11: /cgn2\_6/ptodata/1/pubpna/US09C\_PUBCOMB.seq.\*
- 12: /cgn2\_6/ptodata/1/pubpna/US09\_NEW\_PUB.seq.\*
- 13: /cgn2\_6/ptodata/1/pubpna/US10A\_PUBCOMB.seq.\*
- 14: /cgn2\_6/ptodata/1/pubpna/US10B\_PUBCOMB.seq.\*
- 15: /cgn2\_6/ptodata/1/pubpna/US10C\_PUBCOMB.seq.\*
- 16: /cgn2\_6/ptodata/1/pubpna/US10D\_PUBCOMB.seq.\*
- 17: /cgn2\_6/ptodata/1/pubpna/US10E\_PUBCOMB.seq.\*
- 18: /cgn2\_6/ptodata/1/pubpna/US10F\_PUBCOMB.seq.\*
- 19: /cgn2\_6/ptodata/1/pubpna/US10\_NEW\_PUB.seq.\*
- 20: /cgn2\_6/ptodata/1/pubpna/US11\_NEW\_PUB.seq.\*
- 21: /cgn2\_6/ptodata/1/pubpna/US60\_NEW\_PUB.seq.\*
- 22: /cgn2\_6/ptodata/1/pubpna/US60\_PUBCOMB.seq.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	1001	100.0	16449	10	US-09-820-095-3
2	184	18.4	576	9	Sequence 9249, Ap
3	149.4	14.9	822900	17	US-10-292-798-1393
4	141.4	14.1	33317	13	US-10-087-192-1714
5	141.4	14.1	221000	17	US-10-174-014-12
6	141.4	14.1	233380	13	US-10-087-192-652
7	140.8	14.1	43436	18	US-10-741-601-5638
8	140.2	14.0	195917	18	US-10-723-860-3426
9	139	13.9	256493	13	US-10-087-192-1000
10	138.4	13.8	16556	17	US-10-132-720-3
11	138	13.8	634	13	US-10-027-632-125214

12	138	13.8	634	17	US-10-027-632-125214	Sequence 125214,
13	137.6	13.7	19564	18	US-10-741-601-5773	Sequence 5773, Ap
14	137.6	13.7	30987	18	US-10-741-601-5692	Sequence 5692, Ap
15	137.6	13.7	66686	19	US-10-741-601-5710	Sequence 5710, Ap
16	137.6	13.7	66686	19	US-10-741-600-17813	Sequence 17813, A
17	137.6	13.7	105314	18	US-10-741-601-5609	Sequence 5609, Ap
18	137.6	13.7	105314	19	US-10-741-600-17554	Sequence 17554, A
19	137.6	13.7	95914	18	US-10-322-281-584	Sequence 584, App
20	136.6	13.6	18861	11	US-09-984-429-513	Sequence 513, App
21	136.6	13.6	227968	18	US-10-723-860-1357	Sequence 1357, Ap
22	136.2	13.6	135800	13	US-10-087-192-898	Sequence 898, App
23	136	13.6	819	13	US-10-027-632-166625	Sequence 166625,
24	136	13.6	819	17	US-10-027-632-166625	Sequence 166625,
25	135.8	13.6	32621	13	US-10-087-192-1912	Sequence 1912, Ap
26	135.8	13.6	104000	15	US-10-012-984-14	Sequence 14, Appl
27	135.8	13.6	104000	18	US-10-673-523-14	Sequence 14, Appl
28	135.4	13.5	96595	11	US-09-997-732-262	Sequence 262, App
29	135.2	13.5	874	13	US-10-027-632-169466	Sequence 169466,
30	135.2	13.5	874	13	US-10-027-632-169467	Sequence 169467,
31	135.2	13.5	874	13	US-10-027-632-169468	Sequence 169468,
32	135.2	13.5	874	13	US-10-027-632-169469	Sequence 169469,
33	135.2	13.5	874	17	US-10-027-632-169467	Sequence 169467,
34	135.2	13.5	874	17	US-10-027-632-169468	Sequence 169468,
35	135.2	13.5	874	17	US-10-027-632-169469	Sequence 169469,
36	135.2	13.5	874	17	US-10-027-632-169468	Sequence 169468,
37	135.2	13.5	29163	10	US-09-764-891-7809	Sequence 7809, Ap
38	134.8	13.5	107745	18	US-10-322-281-268	Sequence 268, App
39	134.4	13.4	1254	13	US-10-027-632-259213	Sequence 259213,
40	134.4	13.4	1254	17	US-10-027-632-259213	Sequence 259213,
41	134.2	13.4	908	13	US-10-027-632-119959	Sequence 119959,
42	134.2	13.4	908	13	US-10-027-632-119960	Sequence 119960,
43	134.2	13.4	908	13	US-10-027-632-119961	Sequence 119961,
44	134.2	13.4	908	17	US-10-027-632-119959	Sequence 119959,
45	134.2	13.4	908	17	US-10-027-632-119960	Sequence 119960,

ALIGNMENTS

RESULT 1

US-09-820-095-3  
; Sequence 3, Application US/09820095  
; Publication No. US2003023368A1  
; GENERAL INFORMATION:  
; APPLICANT: WEI, Ming-Hui et al  
; TITLE OF INVENTION: ISOLATED HUMAN G-PROTEIN COUPLED  
; TITLE OF INVENTION: RECEPTORS, NUCLEIC ACID MOLECULES ENCODING HUMAN GPCR  
; TITLE OF INVENTION: PROTEINS, AND USES THEREOF  
; FILE REFERENCE: CL001202  
; CURRENT APPLICATION NUMBER: US/09/820,095  
; CURRENT FILING DATE: 2001-03-29  
; NUMBER OF SEQ ID NOS: 4  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 3  
; LENGTH: 16449  
; TYPE: DNA  
; ORGANISM: Human  
US-09-820-095-3

Query Match	100.0%	Score	1001	DB	10	Length	16449
Best Local Similarity	100.0%	Pred. No.	1.4e-301				
Matches	1001	Conservative	0	Mismatches	0	Indels	0
						Gaps	0
QY	1	AAAAACCCAGCTGGTCAACATAGCAGACTCCATCTCTACAAAAAATAATTTAAAAA	60				
Db	9000	AAAAACCCAGCTGGTCAACATAGCAGACTCCATCTCTACAAAAAATAATTTAAAAA	9059				
QY	61	TCAGCCAGGCACAGTGGTGTGTCTGTAGTCCCGAGTACTGGGATACCTGAGGTGAGAG	120				
Db	9060	TCAGCCAGGCACAGTGGTGTGTCTGTAGTCCCGAGTACTGGGATACCTGAGGTGAGAG	9119				
QY	121	GAATGCTTAAGCCCGGAGGGGAGGCTGTAGTGAGCCATGATACCACTGCCTACATA	180				

Db 9120 GATTGCTTAAGCCGGGAGGGCGAGGCTGTAGTGAGCCATGATCATACCACTGCACTAGA 9179  
QY 181 GCCTGGACAAACAGAGTGAGACCGAATCACTAAATAATATTTTTCAGAAAAGGAGGAAG 240  
Db 9180 GCCTGGACAAACAGAGTGAGACCGAATCACTAAATAATATTTTTCAGAAAAGGAGGAAG 9239  
QY 241 GGSTCTCCCTTTGTTTGAATAACAGTACTGTACCTTCACTTGGCCAGGCAATTCCTCC 300  
Db 9240 GGGTCTCCCTTTGTTTGAATAACAGTACTGTACCTTCACTTGGCCAGGCAATTCCTCC 9299  
QY 301 GCTCCCTCTCTGACACACCTCTCTTTTATTTGACACCTTCAGCTTTCTGTGTGGCCCAAC 360  
Db 9300 GCTCCCTCTCTGACACACCTCTCTTTTATTTGACACCTTCAGCTTTCTGTGTGGCCCAAC 9359  
QY 361 ACTCAGGTACTCTGGCGGGGGTGTGAGGTTGTTTAAAGTGGGAAGGGGGCTGTGC 420  
Db 9360 ACTCAGGTACTCTGGCGGGGGTGTGAGGTTGTTTAAAGTGGGAAGGGGGCTGTGC 9419  
QY 421 TTCCCACTTTGAACCTCCCTGCTTTTGAGACTGGGCTGTGGAGGGGAGACATCCCTGTG 480  
Db 9420 TTCCCACTTTGAACCTCCCTGCTTTTGAGACTGGGCTGTGGAGGGGAGACATCCCTGTG 9479  
QY 481 CATTGGTGAATCTCTCTCCCACTGACACCCGTCGTCCTCCCACTGGCTAACTGCTG 540  
Db 9480 CATTGGTGAATCTCTCTCCCACTGACACCCGTCGTCCTCCCACTGGCTAACTGCTG 9539  
QY 541 GGTGACAGGAGTGTCCCGAGGGGAGGAGGACACACAGCACGCTAACTGTGGCT 600  
Db 9540 GGTGACAGGAGTGTCCCGAGGGGAGGAGGACACACAGCACGCTAACTGTGGCT 9599  
QY 601 CTGCTTTCCAGTCCCTCTAGCAGGTTGGGGGCGGGCTGGATCTCTGGTGGCTCTCTGAG 660  
Db 9600 CTGCTTTCCAGTCCCTCTAGCAGGTTGGGGGCGGGCTGGATCTCTGGTGGCTCTCTGAG 9659  
QY 661 TGACAGCCCTGCTGCTCTCTCCCACTGACACCCGTCGTCCTCCCACTGGCTAACTGCTG 720  
Db 9660 TGACAGCCCTGCTGCTCTCTCCCACTGACACCCGTCGTCCTCCCACTGGCTAACTGCTG 9719  
QY 721 AGGCTTCCCGAGGCTGACAGATTTGAAGGCTGTGAGTTCATCTTTGTTTCTAGGTG 780  
Db 9720 AGGCTTCCCGAGGCTGACAGATTTGAAGGCTGTGAGTTCATCTTTGTTTCTAGGTG 9779  
QY 781 TAAAAACAGCCAGTGTGGTGTCAATGGGACCCACAGGACCTGTGAGATCTGGAGTT 840  
Db 9780 TAAAAACAGCCAGTGTGGTGTCAATGGGACCCACAGGACCTGTGAGATCTGGAGTT 9839  
QY 841 GGTGCCCCGTGAGAGTGGGTTGTGCCCCCTGTAAGTGTCCCACTCCCTACCCCAA 900  
Db 9840 GGTGCCCCGTGAGAGTGGGTTGTGCCCCCTGTAAGTGTCCCACTCCCTACCCCAA 9899  
QY 901 CTGGCGCAGGCCCCCAGGCTGGCAGAGCTGTCACTCCCTTCCACCTGCGAGGAGGCC 960  
Db 9900 CTGGCGCAGGCCCCCAGGCTGGCAGAGCTGTCACTCCCTTCCACCTGCGAGGAGGCC 9959  
QY 961 CTGCTGGCCCCAGGCCAGCAACTTACACTGTTTCATCAAAAA 1001  
Db 9960 CTGCTGGCCCCAGGCCAGCAACTTACACTGTTTCATCAAAAA 10000

RESULT 2

US-09-864-761-9249/c  
; Sequence 9249, Application US/09864761  
; Patent No. US20020048763A1  
; GENERAL INFORMATION:  
; APPLICANT: Penn, Sharron G.  
; APPLICANT: Rank, David R.  
; APPLICANT: Hanzel, David K.  
; APPLICANT: Chen, Wensheng  
; TITLE OF INVENTION: HUMAN GENOME-DERIVED SINGLE EXON NUCLEIC ACID PROBES USEFUL FOR  
; FILE REFERENCE: Aomic-a-x-1  
; CURRENT APPLICATION NUMBER: US/09/864,761  
; CURRENT FILING DATE: 2001-05-23

; PRIOR APPLICATION NUMBER: US 60/180,312  
; PRIOR FILING DATE: 2000-02-04  
; PRIOR APPLICATION NUMBER: US 60/207,456  
; PRIOR FILING DATE: 2000-05-26  
; PRIOR APPLICATION NUMBER: US 09/632,366  
; PRIOR FILING DATE: 2000-08-03  
; PRIOR APPLICATION NUMBER: GB 24263.6  
; PRIOR FILING DATE: 2000-10-04  
; PRIOR APPLICATION NUMBER: US 60/236,359  
; PRIOR FILING DATE: 2000-09-27  
; PRIOR APPLICATION NUMBER: PCT/US01/00666  
; PRIOR FILING DATE: 2001-01-30  
; PRIOR APPLICATION NUMBER: PCT/US01/00667  
; PRIOR FILING DATE: 2001-01-30  
; PRIOR APPLICATION NUMBER: PCT/US01/00664  
; PRIOR FILING DATE: 2001-01-30  
; PRIOR APPLICATION NUMBER: PCT/US01/00669  
; PRIOR FILING DATE: 2001-01-30  
; PRIOR APPLICATION NUMBER: PCT/US01/00665  
; PRIOR FILING DATE: 2001-01-30  
; PRIOR APPLICATION NUMBER: PCT/US01/00668  
; PRIOR FILING DATE: 2001-01-30  
; PRIOR APPLICATION NUMBER: PCT/US01/00663  
; PRIOR FILING DATE: 2001-01-30  
; PRIOR APPLICATION NUMBER: PCT/US01/00662  
; PRIOR FILING DATE: 2001-01-30  
; PRIOR APPLICATION NUMBER: PCT/US01/00661  
; PRIOR FILING DATE: 2001-01-30  
; PRIOR APPLICATION NUMBER: PCT/US01/00670  
; PRIOR FILING DATE: 2001-01-30  
; PRIOR APPLICATION NUMBER: US 60/234,687  
; PRIOR FILING DATE: 2000-09-21  
; PRIOR APPLICATION NUMBER: US 09/608,408  
; PRIOR FILING DATE: 2000-06-30  
; PRIOR APPLICATION NUMBER: US 09/774,203  
; PRIOR FILING DATE: 2001-01-29  
; NUMBER OF SEQ ID NOS: 49117  
; SOFTWARE: Anomax Sequence Listing Engine vers. 1.1  
; SEQ ID NO 9249  
; LENGTH: 576  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
; FEATURE:  
; OTHER INFORMATION: MAP TO AC002472.3  
; OTHER INFORMATION: EXPRESSED IN ADULT LIVER, SIGNAL = 1.9  
; OTHER INFORMATION: EXPRESSED IN HELA, SIGNAL = 1.4  
; OTHER INFORMATION: EXPRESSED IN PLACENTA, SIGNAL = 1.6  
; OTHER INFORMATION: EXPRESSED IN BRAIN, SIGNAL = 1.6  
; OTHER INFORMATION: EXPRESSED IN LUNG, SIGNAL = 1.5  
; OTHER INFORMATION: EXPRESSED IN HEART, SIGNAL = 4.1  
; US-09-864-761-9249

Query Match 18.4%; Score 184; DB 9; Length 576;  
Best Local Similarity 100.0%; Pred. No. 1.1e-46;  
Matches 184; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
QY 818 CAGGACCTGTGAGATCTGGAGTTGGTGGCCCTGGAGAGTGGCTGTGCTCGTAAGT 877  
DB 576 CAGGACCTGTGAGATCTGGAGTTGGTGGCCCTGGAGAGTGGCTGTGCTCGTAAGT 517  
QY 878 GTCCCAACAATCCCTACCCCACTGGCGCAGGGCCCCCAGGCTGGCAGAGCTGTCCACC 937  
DB 516 GTCCCAACAATCCCTACCCCACTGGCGCAGGGCCCCCAGGCTGGCAGAGCTGTCCACC 457  
QY 938 TCCCTTCACTGGAGAGGGCCCTGTGGCCAGGCCCACTTCACTGTTCATCA 997  
DB 456 TCCCTTCACTGGAGAGGGCCCTGTGGCCAGGCCCACTTCACTGTTCATCA 397  
QY 998 AAAA 1001  
DB 396 AAAA 393

```
RESULT 3
US-10-292-798-1393/c
; Sequence 1393, Application US/10292798
; Publication No. US2003023583A1
; GENERAL INFORMATION:
; APPLICANT: SUWA, MAKIKO
; APPLICANT: ASAI, KIYOSHI
; APPLICANT: AKIYAMA, YUTAKA
; APPLICANT: ABEURATANI, HIROYUKI
; TITLE OF INVENTION: GUANOSINE TRIPHOSPHATE-BINDING PROTEIN COUPLED RECEPTORS
; FILE REFERENCE: 084335/166
; CURRENT APPLICATION NUMBER: US/10/292,798
; CURRENT FILING DATE: 2002-11-13
; PRIOR APPLICATION NUMBER: 10/017,161
; PRIOR FILING DATE: 2001-12-18
; PRIOR APPLICATION NUMBER: JP 2001-246789
; PRIOR FILING DATE: 2001-06-18
; NUMBER OF SEQ ID NOS: 2070
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 1393
; LENGTH: 822900
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; LOCATION: source
; LOCATION: (1)..(822900)
; NAME/KEY: CDS
; LOCATION: (201)..(1068)
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (140545)..(140693)
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (261786)..(261845)
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (273663)..(273702)
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (347633)..(347711)
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (482589)..(482596)
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (534176)..(534210)
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (822485)..(822700)
; FEATURE:
; NAME/KEY: modified_base
; LOCATION: (4848)..(4947)
; OTHER INFORMATION: a, t, c, g, unknown or other
; FEATURE:
; NAME/KEY: modified_base
; LOCATION: (4966)..(4966)
; OTHER INFORMATION: a, t, c, g, unknown or other
; FEATURE:
; NAME/KEY: modified_base
; LOCATION: (17785)..(17884)
; OTHER INFORMATION: a, t, c, g, unknown or other
; FEATURE:
; NAME/KEY: modified_base
; LOCATION: (61159)..(61258)
; OTHER INFORMATION: a, t, c, g, unknown or other
; FEATURE:
; NAME/KEY: modified_base
; LOCATION: (67605)..(67704)
; OTHER INFORMATION: a, t, c, g, unknown or other
; FEATURE:
; NAME/KEY: modified_base
; LOCATION: (417384)..(417483)
; LOCATION: (74625)..(74724)
; OTHER INFORMATION: a, t, c, g, unknown or other
; FEATURE:
; NAME/KEY: modified_base
; LOCATION: (85854)..(85953)
; OTHER INFORMATION: a, t, c, g, unknown or other
; FEATURE:
; NAME/KEY: modified_base
; LOCATION: (367573)..(367573)
; OTHER INFORMATION: a, t, c, g, unknown or other
; FEATURE:
; NAME/KEY: modified_base
; LOCATION: (367588)..(367588)
; OTHER INFORMATION: a, t, c, g, unknown or other
; FEATURE:
; NAME/KEY: modified_base
; LOCATION: (367595)..(367595)
; OTHER INFORMATION: a, t, c, g, unknown or other
; FEATURE:
; NAME/KEY: modified_base
; LOCATION: (367613)..(367614)
; OTHER INFORMATION: a, t, c, g, unknown or other
; FEATURE:
; NAME/KEY: modified_base
; LOCATION: (367985)..(367985)
; OTHER INFORMATION: a, t, c, g, unknown or other
; FEATURE:
; NAME/KEY: modified_base
; LOCATION: (367993)..(367993)
; OTHER INFORMATION: a, t, c, g, unknown or other
; FEATURE:
; NAME/KEY: modified_base
; LOCATION: (367995)..(367995)
; OTHER INFORMATION: a, t, c, g, unknown or other
; FEATURE:
; NAME/KEY: modified_base
; LOCATION: (370273)..(370277)
; OTHER INFORMATION: a, t, c, g, unknown or other
; FEATURE:
; NAME/KEY: modified_base
; LOCATION: (370279)..(370279)
; OTHER INFORMATION: a, t, c, g, unknown or other
; FEATURE:
; NAME/KEY: modified_base
; LOCATION: (370281)..(370282)
; OTHER INFORMATION: a, t, c, g, unknown or other
; FEATURE:
; NAME/KEY: modified_base
; LOCATION: (370285)..(370287)
; OTHER INFORMATION: a, t, c, g, unknown or other
; FEATURE:
; NAME/KEY: modified_base
; LOCATION: (370289)..(370291)
; OTHER INFORMATION: a, t, c, g, unknown or other
; FEATURE:
; NAME/KEY: modified_base
; LOCATION: (385643)..(385742)
; OTHER INFORMATION: a, t, c, g, unknown or other
; FEATURE:
; NAME/KEY: modified_base
; LOCATION: (409961)..(410060)
; OTHER INFORMATION: a, t, c, g, unknown or other
; FEATURE:
; NAME/KEY: modified_base
; LOCATION: (410096)..(410096)
; OTHER INFORMATION: a, t, c, g, unknown or other
; FEATURE:
; NAME/KEY: modified_base
; LOCATION: (417384)..(417483)
```



LOCATION: 77968  
OTHER INFORMATION: unknown  
FEATURE:  
NAME/KEY: unsure  
LOCATION: 77969  
OTHER INFORMATION: unknown  
FEATURE:  
NAME/KEY: unsure  
LOCATION: 77970  
OTHER INFORMATION: unknown  
FEATURE:  
NAME/KEY: unsure  
LOCATION: 77971  
OTHER INFORMATION: unknown  
FEATURE:  
NAME/KEY: unsure  
LOCATION: 77972  
OTHER INFORMATION: unknown  
FEATURE:  
NAME/KEY: unsure  
LOCATION: 77973  
OTHER INFORMATION: unknown  
FEATURE:  
NAME/KEY: unsure  
LOCATION: 77974  
OTHER INFORMATION: unknown  
FEATURE:  
NAME/KEY: unsure  
LOCATION: 77975  
OTHER INFORMATION: unknown  
FEATURE:  
NAME/KEY: unsure  
LOCATION: 77976  
OTHER INFORMATION: unknown  
FEATURE:  
NAME/KEY: unsure  
LOCATION: 77977  
OTHER INFORMATION: unknown  
FEATURE:  
NAME/KEY: unsure  
LOCATION: 77978  
OTHER INFORMATION: unknown  
FEATURE:  
NAME/KEY: unsure  
LOCATION: 77979  
OTHER INFORMATION: unknown  
FEATURE:  
NAME/KEY: unsure  
LOCATION: 77980  
OTHER INFORMATION: unknown  
FEATURE:  
NAME/KEY: unsure  
LOCATION: 77981  
OTHER INFORMATION: unknown  
FEATURE:  
NAME/KEY: unsure  
LOCATION: 77982  
OTHER INFORMATION: unknown  
FEATURE:  
NAME/KEY: unsure  
LOCATION: 77983  
OTHER INFORMATION: unknown  
FEATURE:  
NAME/KEY: unsure  
LOCATION: 77984  
OTHER INFORMATION: unknown  
FEATURE:  
NAME/KEY: unsure  
LOCATION: 77985  
OTHER INFORMATION: unknown  
FEATURE:  
NAME/KEY: unsure  
LOCATION: 77986

OTHER INFORMATION: unknown  
FEATURE:  
NAME/KEY: unsure  
LOCATION: 77987  
OTHER INFORMATION: unknown  
FEATURE:  
NAME/KEY: unsure  
LOCATION: 77988  
OTHER INFORMATION: unknown  
FEATURE:  
NAME/KEY: unsure  
LOCATION: 77989  
OTHER INFORMATION: unknown  
FEATURE:  
NAME/KEY: unsure  
LOCATION: 77990  
OTHER INFORMATION: unknown  
FEATURE:  
NAME/KEY: unsure  
LOCATION: 77991  
OTHER INFORMATION: unknown  
FEATURE:  
NAME/KEY: unsure  
LOCATION: 77992  
OTHER INFORMATION: unknown  
FEATURE:  
NAME/KEY: unsure  
LOCATION: 77993  
OTHER INFORMATION: unknown  
FEATURE:  
NAME/KEY: unsure  
LOCATION: 77994  
OTHER INFORMATION: unknown  
FEATURE:  
NAME/KEY: unsure  
LOCATION: 77995  
OTHER INFORMATION: unknown  
FEATURE:  
NAME/KEY: unsure  
LOCATION: 77996  
OTHER INFORMATION: unknown  
FEATURE:  
NAME/KEY: unsure  
LOCATION: 77997  
OTHER INFORMATION: unknown  
FEATURE:  
NAME/KEY: unsure  
LOCATION: 77998  
OTHER INFORMATION: unknown  
FEATURE:  
NAME/KEY: unsure  
LOCATION: 77999  
OTHER INFORMATION: unknown  
FEATURE:  
NAME/KEY: unsure  
LOCATION: 78000  
OTHER INFORMATION: unknown  
FEATURE:  
NAME/KEY: unsure  
LOCATION: 78001  
OTHER INFORMATION: unknown  
FEATURE:  
NAME/KEY: unsure  
LOCATION: 78002  
OTHER INFORMATION: unknown  
FEATURE:  
NAME/KEY: unsure  
LOCATION: 78003  
OTHER INFORMATION: unknown  
FEATURE:  
NAME/KEY: unsure  
LOCATION: 78004  
OTHER INFORMATION: unknown

FEATURE:  
NAME/KEY: unsure  
LOCATION: 78005  
OTHER INFORMATION: unknown  
FEATURE:  
NAME/KEY: unsure  
LOCATION: 78006  
OTHER INFORMATION: unknown  
FEATURE:  
NAME/KEY: unsure  
LOCATION: 78007  
OTHER INFORMATION: unknown  
FEATURE:  
NAME/KEY: unsure  
LOCATION: 78008  
OTHER INFORMATION: unknown  
FEATURE:  
NAME/KEY: unsure  
LOCATION: 78009  
OTHER INFORMATION: unknown  
FEATURE:  
NAME/KEY: unsure  
LOCATION: 78010  
OTHER INFORMATION: unknown  
FEATURE:  
NAME/KEY: unsure  
LOCATION: 78011  
OTHER INFORMATION: unknown  
FEATURE:  
NAME/KEY: unsure  
LOCATION: 78012  
OTHER INFORMATION: unknown  
FEATURE:

Query Match 14.1%; Score 141.4; DB 17; Length 221000;

Best Local Similarity 73.0%; Pred. No. 2.6e-32;  
Matches 195; Conservative 0; Mismatches 71; Indels 1; Gaps 1;

QY 2 AAAACGAGCTGCTCAACATAGCAAGACTCCATCTCTACAAAAAATAATTTAAAAAT 61  
DB 139275 AGACGAGCTGGGCAACAGCAAGACTCCATCTCTACAAAAAATAATTTAAAAAT 139216  
QY 62 CAGCCAGGCACAGTGTGTCTGTCTAGTCCAGCTACTCGGGAATACCTGAGGTGAGAG 121  
DB 139215 TAGCCAGGCGTGTGCATATGCTGATGCTCCAGCTACTTGGGAAGCTAAGGTAGGGG 139156  
QY 122 ATTGCTTAAGCCGGGAGGCGAGGCTGTAGTGAGCCATGATCATACCACTGCCTAGAG 181  
DB 139155 ATCTTTGAGCTTGGGAGGTCGAGGCTGCAGTGAGCCATGATTATACCACTGCCTCCAG 139096  
QY 182 CTGGACACAGAGTGAAGCCGATCACTAAAAATAATTTTGAAGGAGGAAAGG 241  
DB 139095 CTGGGTGACAGAACAGACCCCTGTCTC-AAAAAATAATTTTGAAGGAGGAAAGG 139037  
QY 242 GGTCTCCCTTTGCTTTTGAATACAGT 268  
DB 139036 GGTGTAACCTGGGCTATCACTTAATT 139010

RESULT 6

US-10-087-192-652/c  
Sequence 652, Application US/10087192  
Publication No. US20020182586A1  
GENERAL INFORMATION:  
APPLICANT: Morris, David W.  
TITLE OF INVENTION: NOVEL COMPOSITIONS AND METHODS FOR  
FILE REFERENCE: 529452000122  
CURRENT APPLICATION NUMBER: US/10/087,192  
CURRENT FILING DATE: 2002-03-01  
PRIOR APPLICATION NUMBER: US 09/747,377  
PRIOR FILING DATE: 2000-12-22

PRIOR APPLICATION NUMBER: US 09/798,586  
PRIOR FILING DATE: 2001-03-02  
NUMBER OF SEQ ID NOS: 2059  
SOFTWARE: FastSeq for Windows Version 4.0  
SEQ ID NO 652  
LENGTH: 233380  
TYPE: DNA  
ORGANISM: Homo sapiens  
FEATURE:  
NAME/KEY: misc\_feature  
LOCATION: (1)...(233380)  
OTHER INFORMATION: n = A,T,C or G  
US-10-087-192-652

Query Match 14.1%; Score 141.4; DB 13; Length 233380;

Best Local Similarity 73.0%; Pred. No. 2.6e-32;  
Matches 195; Conservative 0; Mismatches 71; Indels 1; Gaps 1;

QY 2 AAAACGAGCTGCTCAACATAGCAAGACTCCATCTCTACAAAAAATAATTTAAAAAT 61  
DB 146586 AGACGAGCTGGGCAACAGCAAGACTCCATCTCTACAAAAAATAATTTAAAAAT 146527  
QY 62 CAGCCAGGCACAGTGTGTCTGTCTAGTCCAGCTACTCGGGAATACCTGAGGTGAGAG 121  
DB 146526 TAGCCAGGCGTGTGCATATGCTGATGCTCCAGCTACTTGGGAAGCTAAGGTAGGGG 146467  
QY 122 ATTGCTTAAGCCGGGAGGCGAGGCTGTAGTGAGCCATGATCATACCACTGCCTAGAG 181  
DB 146466 ATCTTTGAGCTTGGGAGGTCGAGGCTGCAGTGAGCCATGATTATACCACTGCCTCCAG 146407  
QY 182 CTGGACACAGAGTGAAGCCGATCACTAAAAATAATTTTGAAGGAGGAAAGG 241  
DB 146406 CTGGGTGACAGAACAGACCCCTGTCTC-AAAAAATAATTTTGAAGGAGGAAAGG 146348  
QY 242 GGTCTCCCTTTGCTTTTGAATACAGT 268  
DB 146347 GGTGTAACCTGGGCTATCACTTAATT 146321

RESULT 7

US-10-741-601-5638  
Sequence 5638, Application US/10741601  
Publication No. US20040166519A1  
GENERAL INFORMATION:  
APPLICANT: CARGILL, Michelle et al.  
TITLE OF INVENTION: GENETIC POLYMORPHISMS ASSOCIATED WITH  
FILE REFERENCE: CL001500  
CURRENT APPLICATION NUMBER: US/10/741,601  
NUMBER OF SEQ ID NOS: 26415  
SOFTWARE: FastSeq for Windows Version 4.0  
SEQ ID NO 5638  
LENGTH: 43436  
TYPE: DNA  
ORGANISM: Homo sapiens  
US-10-741-601-5638

Query Match 14.1%; Score 140.8; DB 18; Length 43436;

Best Local Similarity 74.2%; Pred. No. 2e-32;  
Matches 178; Conservative 0; Mismatches 62; Indels 0; Gaps 0;

QY 2 AAAACGAGCTGCTCAACATAGCAAGACTCCATCTCTACAAAAAATAATTTAAAAAT 61  
DB 4159 AAGACCAACCTGGGCAACATAGTGAGACACTCTCTACAAAAAATAATTTAAAAAT 4218  
QY 62 CAGCCAGGCACAGTGTGTCTGTCTAGTCCAGCTACTCGGGAATACCTGAGGTGAGAG 121  
DB 4219 TAGCCAGGCTGTGTATGATGCTGTGTATCTAGTACTTGGGAAGCTGAGGTAGGAG 4278  
QY 122 ATTGCTTAAGCCGGGAGGCGAGGCTGTAGTGAGCCATGATCATACCACTGCCTAGAG 181  
DB 4279 ATTGCTTGAAGCTTGAAGGCGGAGTGAAGGCGGAGTGTGTGATCATGCTGCTTCCAG 4338



QY 182 CTGGACACAGAGTGGAGCCGAATCACTAAATAATTAATTTTGTGAAAAAGAGGAAAGG 241  
Db 4339 CTTGAGTGACAGAGTGGAGCCATATCTCCAGAAAGAAAAAGAAAAAGAAAGAAAG 4398

## RESULT 8

US-10-723-860-3426/c  
; Sequence 3426, Application US/10723860  
; Publication No. US20040253606A1  
; GENERAL INFORMATION:  
; APPLICANT: Aziz, Natasha  
; APPLICANT: Ginsburg, Wendy M.  
; APPLICANT: Zlotnik, Albert  
; TITLE OF INVENTION: Methods of Diagnosis of Soft Tissue Sarcoma, Compositions &  
; TITLE OF INVENTION: Methods for Screening for Soft Tissue Sarcoma Modulators  
; FILE REFERENCE: 05882.0193 NPUS01  
; CURRENT APPLICATION NUMBER: US/10/723,860  
; PRIOR FILING DATE: 2003-11-26  
; PRIOR APPLICATION NUMBER: 60/429,739  
; PRIOR FILING DATE: 2002-11-26  
; NUMBER OF SEQ ID NOS: 8393  
; SOFTWARE: PatentIn version 3.2  
; SEQ ID NO 3426  
; LENGTH: 195917  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
US-10-723-860-3426

Query Match 14.0%; Score 140.2; DB 18; Length 195917;  
Best Local Similarity 77.9%; Pred. No. 5.8e-32;  
Matches 169; Conservative 0; Mismatches 48; Indels 0; Gaps 0;  
QY 3 AAACAGAGCTGGTCAACATAGCAAGACTCCATCTCTACAAAAAATAATTTAAATAATC 62  
Db 77452 AGACAGAGCTGGCATATATGTGACCTCACTCTACAAAAAATAATTTAAATAAT 77393  
QY 63 AGCAGGACAGTGGTGTGTCTGTAGTCCAGCTACTGGGAATATCTGAGGTGAGAGGA 122  
Db 77392 AGCAGAGTATGGTGGCAAGCAGCTGAGTCCAGCTACTTGAGAGGCTGAGGTGAGAGGA 77333  
QY 123 TTGCTTAAGCCGGAGGGAGGCTGTGTAGTCCAGCTACTGGGAATATCTGAGGTGAGAGG 182  
Db 77332 TTGTTTGGAGCAGGAGGTTGAGGCTGAAAGTGGAGCCATGATCACACCTGCACTCCAGC 77273  
QY 183 CTGGACACAGAGTGGAGCCGAATCACTAAATAATAA 219  
Db 77272 CTGGACACAGAGCAGACCTTATCTTAGAAAAAAA 77236

## RESULT 9

US-10-087-192-1000/c  
; Sequence 1000, Application US/10087192  
; Publication No. US20020182586A1  
; GENERAL INFORMATION:  
; APPLICANT: Morris, David W.  
; APPLICANT: Engelhard, Eric K.  
; TITLE OF INVENTION: NOVEL COMPOSITIONS AND METHODS FOR  
; TITLE OF INVENTION: CANCER  
; FILE REFERENCE: 529452000122  
; CURRENT APPLICATION NUMBER: US/10/087,192  
; CURRENT FILING DATE: 2002-03-01  
; PRIOR APPLICATION NUMBER: US 09/747,377  
; PRIOR FILING DATE: 2000-12-22  
; PRIOR APPLICATION NUMBER: US 09/798,586  
; PRIOR FILING DATE: 2001-03-02  
; NUMBER OF SEQ ID NOS: 2059  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 1000  
; LENGTH: 256493  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
; FEATURE:

; NAME/KEY: misc\_feature  
; LOCATION: (1)...(256493)  
; OTHER INFORMATION: n = A,T,C or G  
US-10-087-192-1000  
Query Match 13.9%; Score 139; DB 13; Length 256493;  
Best Local Similarity 71.0%; Pred. No. 1.6e-31;  
Matches 198; Conservative 0; Mismatches 80; Indels 1; Gaps 1;  
QY 2 AAAACAGAGCTGGTCAACATAGCAAGACTCCATCTCTACAAAAAATAATTTAAATAAT 61  
Db 49710 AGACAGAGTGGGCAACATGGCAAGACCCACCTCTACAAAAAATAA-ACAAAAAAT 49652  
QY 62 CAGCCAGGACAGTGGTGTGTGTAGTCCAGCTACTTGGGAATATCTGAGGTGAGAGG 121  
Db 49651 TAGCCAGGTGTGGGGGTGCTTCCCTGTAGTCCAGCTACTCAGGAGGCTGAGGTAGAGG 49592  
QY 122 ATTGCTTAAGCCGGAGGGCGAGGCTGTGTAGTCCAGCTACTTGGGAATATCTGAGGTGAGAGG 181  
Db 49591 ATGCTTTGAGCCAAAGAGGTTGGAGGTTGAGGCGGTGATGCACACCTTGCACCTTAG 49532  
QY 182 CTGGACACAGAGTGGAGCCGAATCACTAAATAATAATTTTGAAGAGGAGGAAGG 241  
Db 49531 CTGGATGACAGATGAGACCTCTCTCAAAAAATAAGAAAAAGAAAAACAG 49472  
QY 242 GGTCTCCCTTTGTCTTTGAAATACAGTACTGTACCTTCA 280  
Db 49471 TGGCAGCAAGAGGACTTGAATTTCTGAATCTCTGCTCTCA 49433

## RESULT 10

US-10-132-720-3/c  
; Sequence 3, Application US/10132720  
; Publication No. US20030219747A1  
; GENERAL INFORMATION:  
; APPLICANT: HU, Song et al.  
; TITLE OF INVENTION: ISOLATED HUMAN SECRETED PROTEINS,  
; TITLE OF INVENTION: NUCLEIC ACID MOLECULES ENCODING HUMAN SECRETED PROTEINS, AND  
; FILE REFERENCE: CL001230  
; CURRENT APPLICATION NUMBER: US/10/132,720  
; CURRENT FILING DATE: 2002-04-26  
; PRIOR APPLICATION NUMBER: 60/286,382  
; PRIOR FILING DATE: 2001-04-26  
; NUMBER OF SEQ ID NOS: 8  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 3  
; LENGTH: 16556  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
; FEATURE:  
; NAME/KEY: misc\_feature  
; LOCATION: (1)...(16556)  
; OTHER INFORMATION: n = A,T,C or G  
US-10-132-720-3

Query Match 13.8%; Score 138.4; DB 17; Length 16556;  
Best Local Similarity 73.0%; Pred. No. 7.7e-32;  
Matches 178; Conservative 0; Mismatches 66; Indels 0; Gaps 0;  
QY 3 AAACAGAGCTGGTCAACATAGCAAGACTCCATCTCTACAAAAAATAATTTAAATAATC 62  
Db 5788 AGACAGAGCTGGGCAACATAGCAAGACCCCATCTCTGCAATAATAAAGACACAAAAAT 5729  
QY 63 AGCCAGGACAGTGGTGTGTGTGTAGTCCAGCTACTGGGATATCTGAGGTGAGAGGA 122  
Db 5728 AGCTGGGCAATGGTGGCGTGCACCTGTGTAGTCCAGCTACTTGGAGGCTGAGGCAAGAGGA 5669  
QY 123 TTGCTTTAAGCCGGAGGGCGAGGCTGTGTAGTCCAGCTACTGATCATCATCTGCACTAGAGC 182  
Db 5668 TCATTGAGCCCTGGGAGGTTCAAGACTGAGTGGCGGTGATTTGTGCACTGCACTCAGC 5609  
QY 183 CTGGACACAGAGTGGAGCCGAATCACTAAAAATAATTTTGAAGAGGAGGAAGG 242







Result No.	Score	Query		length	DB	ID	Description
		Match	✖				
C 1	141	14.1	52523	4	US-09-949-016-12433		Sequence 12433, A
C 2	141	14.1	52530	4	US-09-949-016-13948		Sequence 13948, A
C 3	140.6	14.0	601	4	US-09-949-016-76097		Sequence 76097, A
C 4	139.6	13.9	601	4	US-09-949-016-126119		Sequence 126119, A
C 5	139.6	13.9	601	4	US-09-949-016-126120		Sequence 126120, A
C 6	139.6	13.9	35007	4	US-09-949-016-15330		Sequence 15330, A
C 7	139	13.8	482	4	US-09-513-9999C-28419		Sequence 28419, A
C 8	138.6	13.8	135171	4	US-09-949-016-15617		Sequence 15617, A
C 9	138.4	13.8	304533	4	US-09-949-016-15371		Sequence 15371, A
C 10	138.4	13.8	304533	4	US-09-949-016-15372		Sequence 15372, A
C 11	137.8	13.8	601	4	US-09-949-016-58699		Sequence 58699, A
C 12	137.8	13.8	37292	4	US-09-949-016-15382		Sequence 15382, A
C 13	137.8	13.8	172677	4	US-09-949-016-13444		Sequence 13444, A
C 14	136.8	13.7	235452	4	US-09-949-016-13675		Sequence 13675, A
C 15	136.6	13.6	601	4	US-09-949-016-127367		Sequence 127367, A
C 16	136.2	13.6	119801	4	US-09-949-016-13453		Sequence 13453, A
C 17	135.6	13.5	94873	4	US-09-949-016-12477		Sequence 12477, A
C 18	135.4	13.5	69924	4	US-09-949-016-15367		Sequence 15367, A
C 19	135.4	13.5	346112	4	US-09-949-016-13165		Sequence 13165, A
C 20	134.8	13.5	50109	4	US-09-949-016-14112		Sequence 14112, A
C 21	134.8	13.5	177251	4	US-09-949-016-15841		Sequence 15841, A
C 22	134.6	13.4	27630	4	US-09-949-016-12722		Sequence 12722, A
C 23	134.6	13.4	89689	4	US-09-949-016-13089		Sequence 13089, A
C 24	134.6	13.4	150780	4	US-09-949-016-14711		Sequence 14711, A
C 25	134.2	13.4	44019	4	US-09-949-016-14902		Sequence 14902, A
C 26	134.2	13.4	168971	4	US-09-949-016-13807		Sequence 13807, A
C 27	134	13.4	117080	4	US-09-949-016-13627		Sequence 12627, A

## RESULT 2

US-09-949-016-13948/c  
; Sequence 13948, Application US/09949016  
; Patent No. 6812339  
; GENERAL INFORMATION:  
; APPLICANT: VENTER, J. Craig et al.  
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED  
; TITLE OF INVENTION: WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF  
; FILE REFERENCE: CL001307  
; CURRENT APPLICATION NUMBER: US/09/949,016  
; CURRENT FILING DATE: 2000-04-14  
; PRIOR APPLICATION NUMBER: 60/241,755  
; PRIOR FILING DATE: 2000-10-20  
; PRIOR APPLICATION NUMBER: 60/237,768  
; PRIOR FILING DATE: 2000-10-03  
; PRIOR APPLICATION NUMBER: 60/231,498  
; PRIOR FILING DATE: 2000-09-08  
; NUMBER OF SEQ ID NOS: 207012  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 13948  
; LENGTH: 52530  
; TYPE: DNA  
; ORGANISM: Human  
; FEATURE:  
; NAME/KEY: misc\_feature  
; LOCATION: (1)...(52530)  
; OTHER INFORMATION: n = A,T,C or G  
US-09-949-016-13948

Query Match 14.1%; Score 141; DB 4; Length 52530;  
Best Local Similarity 76.0%; Pred. No. 1.5e-32;  
Matches 174; Conservative 0; Mismatches 55; Indels 0; Gaps 0;

QY	3	AAACGAGCTGGTCAACATAGCAAGACTCCATCTCTACAAAAAATAATTAATAATC	62
DB	17964	AGACGAGCTGGTCAACATAGCAAGACTCCATCTCTACAAAAAATAATTAATTTAAAT	17905
QY	63	AGCCAGGACAGTGGTGTGTCTGTAGTCCAGCTACTGGGAATATCTGAGGTGAGAGGA	122
DB	17904	AGTAGGACAGTGGGCACATGCTGTGTCTCTACAGCTACTCGGAAGCTGAGGTAGAGGA	17845
QY	123	TTGCTTAAGCCCGGAGGGGAGGCTGTGTAGTGGCAGCATGATCATACCTGCACTAGAGC	182
DB	17844	TCGCTTGGGCTTGGAGGTCAAGGCTGCAAGTGCAGTGCAGCATAGTCATGCCACTGCCAGC	17785
QY	183	CTGGCAACAGAGTGGAGCCGATCACTAAATAATTTTGAATAA	231
DB	17784	CTGGCAACAGAGCAAGATCTTATCTCAAAAAAACAATTTGGGAA	17736

## RESULT 3

US-09-949-016-76097/c  
; Sequence 76097, Application US/09949016  
; Patent No. 6812339  
; GENERAL INFORMATION:  
; APPLICANT: VENTER, J. Craig et al.  
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED  
; TITLE OF INVENTION: WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF  
; FILE REFERENCE: CL001307  
; CURRENT APPLICATION NUMBER: US/09/949,016  
; CURRENT FILING DATE: 2000-04-14  
; PRIOR APPLICATION NUMBER: 60/241,755  
; PRIOR FILING DATE: 2000-10-20  
; PRIOR APPLICATION NUMBER: 60/237,768  
; PRIOR FILING DATE: 2000-10-03  
; PRIOR APPLICATION NUMBER: 60/231,498  
; PRIOR FILING DATE: 2000-09-08  
; NUMBER OF SEQ ID NOS: 207012  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 76097  
; LENGTH: 601  
; TYPE: DNA  
; ORGANISM: Human

## US-09-949-016-76097

Query Match 14.0%; Score 140.6; DB 4; Length 601;  
Best Local Similarity 75.5%; Pred. No. 1.2e-33;  
Matches 173; Conservative 1; Mismatches 55; Indels 0; Gaps 0;  
QY 3 AAACGAGCTGGTCAACATAGCAAGACTCCATCTCTACAAAAAATAATTAATAATC 62  
DB 350 AGACGAGCTGGTCAACATAGCAAGACTCCATCTCTACAAAAAATAATTTAAAT 291  
QY 63 AGCCAGGACAGTGGTGTGTCTGTAGTCCAGCTACTGGGAATATCTGAGGTGAGAGGA 122  
DB 290 AGTAGGACAGTGGGCACATGCTGTGTGTCTCTACAGCTACTCGGAAGCTGAGGTAGAGGA 231  
QY 123 TTGCTTAAGCCCGGAGGGGAGGCTGTGTAGTGGCAGCATGATCATACCTGCACTAGAGC 182  
DB 230 TCGCTTGGGCTTGGAGGTCAAGGCTGCAAGTGCAGTGCAGCATAGTCATGCCACTGCCAGC 171  
QY 183 CTGGCAACAGAGTGGAGCCGATCACTAAATAATTTTGAATAA 231  
DB 170 CTGGCAACAGAGCAAGATCTTATCTCAAAAAAACAATTTGGGAA 122

## RESULT 4

US-09-949-016-126119  
; Sequence 126119, Application US/09949016  
; Patent No. 6812339  
; GENERAL INFORMATION:  
; APPLICANT: VENTER, J. Craig et al.  
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED  
; TITLE OF INVENTION: WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF  
; FILE REFERENCE: CL001307  
; CURRENT APPLICATION NUMBER: US/09/949,016  
; CURRENT FILING DATE: 2000-04-14  
; PRIOR APPLICATION NUMBER: 60/241,755  
; PRIOR FILING DATE: 2000-10-20  
; PRIOR APPLICATION NUMBER: 60/237,768  
; PRIOR FILING DATE: 2000-10-03  
; PRIOR APPLICATION NUMBER: 60/231,498  
; PRIOR FILING DATE: 2000-09-08  
; NUMBER OF SEQ ID NOS: 207012  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 126119  
; LENGTH: 601  
; TYPE: DNA  
; ORGANISM: Human  
US-09-949-016-126119

Query Match 13.9%; Score 139.6; DB 4; Length 601;  
Best Local Similarity 77.5%; Pred. No. 2.4e-33;  
Matches 169; Conservative 0; Mismatches 49; Indels 0; Gaps 0;  
QY 2 AAACGAGCTGGTCAACATAGCAAGACTCCATCTCTACAAAAAATAATTAATAAT 61  
DB 89 AAGACGAGCTGGGCAATATATACCAAGACTTATCTCTACAAAAAACAATAAT 148  
QY 62 CAGCCAGGACAGTGGTGTGTCTGTAGTCCAGCTACTGGGAATATCTGAGGTGAGAGG 121  
DB 149 TAGCTGGGACATGGTGGCACAATACCTGTAGTCCAGCTACTTGGGAGGCTGAGGTGGAGG 208  
QY 122 ATTGCTTAAGCCCGGAGGGGAGGCTGTGTAGTGGCAGCATGATCATACCTGCACTAGAG 181  
DB 209 ATTGCTTGAAGCTGGGAGGTCGAGGCTGAGGTGAGTGTGATCGTGCCTGCTGCTCCAG 268  
QY 182 CCTGGACACAGTGGAGCCGATCACTAAATAATAA 219  
DB 269 CCTGGGACACAGTGGGACCCCTCTCAAAAAAATAA 306

## RESULT 5

US-09-949-016-126120  
; Sequence 126120, Application US/09949016  
; Patent No. 6812339

```

; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: CL001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; CURRENT FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 126120
; LENGTH: 601
; TYPE: DNA
; ORGANISM: Human
US-09-949-016-126120

Query Match          13.9%; Score 139.6; DB 4; Length 601;
Best Local Similarity 77.5%; Pred. No. 2.4e-33;
Matches 169; Conservative 0; Mismatches 49; Indels 0; Gaps 0;

Qy      2  AAAACCCAGCCTGGTCAACATAGCAGACTCCATCTCTACAAAAAATAATATTAATAAT 61
Db      4  AAGACCAGCCTGGGCNATATACCAAGACCTTATCTCTACAAAAAACAACAAAAACGAAAT 63

Qy      62  CAGCCAGGCACAGTGGTGTGTCTGTAGTCCAGCTACTGGGATACCTGAGGTGAGAG 121
Db      64  TAGCTGGGCATGGTGGGCATACCTGTAGTCCAGCTACTTGGGAGGCTGAGGTGGGAGG 123

Qy      122  ATTCTTAAAGCCCGGAGGGCGAGGCTGTAGTGAGCCCATGATCATACCACTGCATGAG 181
Db      124  ATTGCTTGAGCCTGGGAGGTCGAGGCTCGAGCTGCGAGCTGTGATCGTGCCACTGCACTCCAG 183

Qy      182  CTTGGACAACAGAGTGAGACCGGAATCACTAAAAATAAA 219
Db      184  CTTGGGCACAGAGTGGGAGCCCGCTCTCAAAAAAATAAA 221

RESULT 6
US-09-949-016-15330
; Sequence 15330, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: CL001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; CURRENT FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 15330
; LENGTH: 35007
; TYPE: DNA
; ORGANISM: Human
US-09-949-016-15330

Query Match          13.9%; Score 139.6; DB 4; Length 35007;
Best Local Similarity 77.5%; Pred. No. 3.2e-32;
Matches 169; Conservative 0; Mismatches 49; Indels 0; Gaps 0;

Qy      2  AAAACCCAGCCTGGTCAACATAGCAGACTCCATCTCTACAAAAAATAATATTAATAAT 61

```

```

Db      18656 AAGACCAGCCTGGGCAATATACCAAGACCTTATCTCTACAAAAAACAACAAAT 18711
Qy      62   CAGCCAGGCACAGTGGTGTGTGTAGTCTCCAGACTCTGGGAATATCTAGGTGAGAG 121
Db      18716 TAGCTGGCGATGGTGCCACATACCTGTAGTCTCCAGCTACTTTGGGAGGCTGAGGTGGAG 18775
Qy      122 ATTGCTTAAGCCCGGAGGGCGAGGCTGTAGTGAGCCATGATCATACCACTGCCACTAGAG 181
Db      18776 ATTGCTTTGAGCCTGGGAGGTGAGGCTGCAGGTGAGTGTGATCGTGCCACTGCTCCAG 18835
Qy      182 CCTGGACAACACAGAGTCGAGACCGCAATCACATAAAAATAAA 219
Db      18836 CCTGGGCGACAGNGTGGGACCCCGTCTCAAAAAAAAAA 18873

RESULT 7
US-09-513-999C-28419/C
; Sequence 28419 Application US/09513999C
; Patent No. 6783961
; GENERAL INFORMATION:
; APPLICANT: Dumas Milne Edwards, J.B.
; APPLICANT: Duclert, A.
; APPLICANT: Giordano, J.Y.
; TITLE OF INVENTION: Expressed Sequence Tags and Encoded Human Proteins.
; Patent No. 6783961
; FILE REFERENCE: 59.US2.REG
; CURRENT APPLICATION NUMBER: US/09/513,999C
; CURRENT FILING DATE: 2000-02-24
; PRIOR APPLICATION NUMBER: US 60/122,487
; PRIOR FILING DATE: 1999-02-26
; NUMBER OF SEQ ID NOS: 36681
; SOFTWARE: Patent.pm
; SEQ ID NO 28419
; LENGTH: 482
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: 338
; OTHER INFORMATION: n=a, g, c or t
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: 339
; OTHER INFORMATION: n=a, g, c or t
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: 340
; OTHER INFORMATION: h=a or c or t
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: 377
; OTHER INFORMATION: w=a or t
; OTHER INFORMATION: w=a or t
US-09-513-999C-28419

Query Match          13.9%; Score 139; DB 4; Length 482;
Best Local Similarity 80.6%; Pred. No. 3.2e-33;
Matches 175; Conservative 0; Mismatches 40; Indels 2; Gaps 1;

Qy      3   AAACCGACCTGGTCAACATAGCAAGACTCCATCTCTACAAAAAATAATTAAAAATC 62
Db      304 AGACCGACCTGGGCAACACAGGGAGACCCCGTCTCTACAAAAAATAATTTTT--AAATT 247
Qy      63   AGCAGGCAAGTGGGTGTGTCTGTAGTCCCAGCTTACTGGGAATATCTGAGGTGAGAGA 122
Db      246 AGCAGGCTTGGTGTATGTGCTGTATGTCCTAGTCCAGCTACTTTGGAGGCTGAGGTGGAGNA 187
Qy      123 TTGCTTTAAGCCCGGAGGCGAGGCTGTAGTGAGCCATGATCATACCACTGCACTAGAGC 182
Db      186 TTAGCTTTGAGCCCGAGGAGTTCAAGGCTGCGAGTGAGCCATGATCATGCCACTGCACTCCAGC 127
Qy      183 CTGGACAACAGAGTCGAGACCGGAATCACTAAAAATAAA 219
Db      126 CTGGGCAACAGAGATGAACCTTTGTTTTCAAAAAATAAA 90

```

```

Db      18656 AAGACGAGCTGGCAATATACCAGACCTTATCTCTACAAAAAAACAATAAATCGAAT 18711
Qy      62 CAGCCAGGCACAGTGTTGTGTGTAGTCCTCAGACTCTGGGAATATCTAGGCTGAGAG 121
Db      18716 TAGCTGGCATGTGTGCCACATACCTGTAGTCCCAGCTATTGGGAGGCTGAGGTGGAG 18775
Qy      122 ATTGCTTAAGCCCGGAGGGCGGAGGCTGTAGTGAGCCATGATCATACCACTGCCTAGAG 181
Db      18776 ATTGCTTTGAGCTGGGAGGTCAGGCTGCAGTGTGATCGTGCCACTGCACTCCAG 18835
Qy      182 CCTGGACACACAGAGTGAGACCGCAATCACPTAAAATAAA 219
Db      18836 CCTGGGCGACAGNGTGGGACCCCGTCTCAAAAAAAAA 18873

RESULT 7
US-09-513-999C-28419/C
; Sequence 28419 Application US/09513999C
; Patent No. 6783961
; GENERAL INFORMATION:
; APPLICANT: Dumas Milne Edwards, J.B.
; APPLICANT: Duclert, A.
; APPLICANT: Giordano, J.Y.
; TITLE OF INVENTION: Expressed Sequence Tags and Encoded Human Proteins.
; Patent No. 6783961
; FILE REFERENCE: 59.US2.REG
; CURRENT APPLICATION NUMBER: US/09/513,999C
; CURRENT FILING DATE: 2000-02-24
; PRIOR APPLICATION NUMBER: US 60/122,487
; PRIOR FILING DATE: 1999-02-26
; NUMBER OF SEQ ID NOS: 36681
; SOFTWARE: Patent.pm
; SEQ ID NO 28419
; LENGTH: 482
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: 338
; OTHER INFORMATION: n=a, g, c or t
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: 339
; OTHER INFORMATION: n=a, g, c or t
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: 340
; OTHER INFORMATION: h=a or c or t
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: 377
; OTHER INFORMATION: w=a or t
; OTHER INFORMATION: w=a or t
US-09-513-999C-28419

Query Match          13.9%; Score 139; DB 4; Length 482;
Best Local Similarity 80.6%; Pred. No. 3.2e-33;
Matches 175; Conservative 0; Mismatches 40; Indels 2; Gaps 1;

Qy      3 AAACCGAGCTGGTCAACATAGCAGACTCCATCTCTACAAAAAAATAATTAATAATC 62
Db      304 AGACGAGCTGGGCAACACAGGGAGACCCCGTCTCTACAAAAAAATAATTTTT--AAATT 247
Qy      63 AGCAGGCACAGTGGGTGTGTCTGTAGTCCAGCTTACTGGGAATATCTGAGGTGAGAGA 122
Db      246 AGCAGGCTTGTGTGATATGTGCTGTAGTCCAGCTACTTTGGAGGCTGAGGTGGAGNA 187
Qy      123 TTGCTTTAAGCCCGGAGGCGGAGGCTGTAGTGAGCCATGATCATACCACTGCCTAGAGC 182
Db      186 TTGCTTTGAGCCCGAGGAGTTCAAGGCTGCGAGTGAGCCATGATCATGCCACTGCACTCCAGC 127
Qy      183 CTGGACACACAGAGTGAGACCGAATCACTAAAAATAAA 219
Db      126 CTGGGCAACAGATGAACCTTGTGTTTCAAAAAATAAA 90

```





## RESULT 11

US-09-949-016-58699  
; Sequence 58699, Application US/09949016  
; Patent No. 6812339

; GENERAL INFORMATION:

; APPLICANT: VENTER, J. Craig et al.

; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED

; FILE REFERENCE: CL001307

; CURRENT APPLICATION NUMBER: US/09/949,016

; CURRENT FILING DATE: 2000-04-14

; PRIOR APPLICATION NUMBER: 60/241,755

; PRIOR FILING DATE: 2000-10-20

; PRIOR APPLICATION NUMBER: 60/237,768

; PRIOR FILING DATE: 2000-10-03

; PRIOR APPLICATION NUMBER: 60/231,498

; PRIOR FILING DATE: 2000-09-08

; NUMBER OF SEQ ID NOS: 207012

; SOFTWARE: FastSeq for Windows Version 4.0

; SEQ ID NO 58699

; LENGTH: 601

; TYPE: DNA

; ORGANISM: Human

; US-09-949-016-58699

Query Match 13.8%; Score 137.8; DB 4; Length 601;  
Best Local Similarity 70.5%; Pred. No. 8.8e-33;  
Matches 184; Conservative 0; Mismatches 77; Indels 0; Gaps 0;

QY 3 AAACGAGCCTGGTCAACATAGCAGGAGCTCCATCTCTACAAAAAATAATTAATAATC 62

DB 331 AGACGAGCCTGGGCAACATAGCAGGAGCTCCATCTCTACAAAAAATAATTAATAAT 390

QY 63 AGCCAGGACAGTGGTGTGTCTGTAGTCCAGCTACTGGGAATCTAGGTGAGGGA 122

DB 391 AGCTAGGACATAGCAGTGTGTCTATAGTCCAGCTACTCAGGAGCAGGTTGGGAGGA 450

QY 123 TTGCTTAAGCCCGGAGGCGGCTGTAGTGAGCCATGATCATACCTGCACTAGAGC 182

DB 451 TCGCTTGAACCCAGGAGGTGGCTGCGAGTGTGATCAGCTGATCAGCTGCTCCAGC 510

QY 183 CTGGACAACAGAGTGAGCCGATCACTATAAATAATTTTGAAGGAGGAGGAAAGG 242

DB 511 CTAGGTGACAGAGAAAGACCTTGTCTCAAGAAATAGCAACAAATAAGCCTATCAGTA 570

QY 243 GTCTCCCTTTGCTTTGAAAT 263

DB 571 ATATCCCAATGTTAATAAT 591

## RESULT 12

US-09-949-016-15382/c  
; Sequence 15382, Application US/09949016  
; Patent No. 6812339

; GENERAL INFORMATION:

; APPLICANT: VENTER, J. Craig et al.

; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED

; FILE REFERENCE: CL001307

; CURRENT APPLICATION NUMBER: US/09/949,016

; CURRENT FILING DATE: 2000-04-14

; PRIOR APPLICATION NUMBER: 60/241,755

; PRIOR FILING DATE: 2000-10-20

; PRIOR APPLICATION NUMBER: 60/237,768

; PRIOR FILING DATE: 2000-10-03

; PRIOR APPLICATION NUMBER: 60/231,498

; PRIOR FILING DATE: 2000-09-08

; NUMBER OF SEQ ID NOS: 207012

; SOFTWARE: FastSeq for Windows Version 4.0

; SEQ ID NO 15382

; LENGTH: 37292

; TYPE: DNA

; ORGANISM: Human

; FEATURE:

; NAME/KEY: misc\_feature

; LOCATION: (1)...(37292)

; OTHER INFORMATION: n = A,T,C or G

; US-09-949-016-15382

Query Match 13.8%; Score 137.8; DB 4; Length 37292;

Best Local Similarity 73.8%; Pred. No. 1.2e-31;

Matches 175; Conservative 0; Mismatches 62; Indels 0; Gaps 0;

QY 2 AAACGAGCCTGGTCAACATAGCAGGAGCTCCATCTCTACAAAAAATAATTAATAAT 61

DB 14941 AAAGCAGCCTGGGCAACATAGCAGGAGCTCTCTACAAAAAATAATTAATAAT 14882

QY 62 CAGCCAGGACAGTGGTGTGTCTGTAGTCCAGCTACTGGGAATCTAGGTGAGG 121

DB 14881 TAGCTGAGTGTGTGACGCTGACCTGTTGTTCCCAACCTCAGGAGCTGAGGTGGAGG 14822

QY 122 ATTGCTTAAGCCCGGAGGCGGAGCTGTAGTGAGCCATGATCATACCTGCACTAGAG 181

DB 14821 ATTGCTTGAACCCAGGAGGTGAGGCTGCGAGTGTGATCAGCTGCTCCAG 14762

QY 182 CCTGGACAACAGAGTGAGCCGATCACTATAAATAATTTTGAAGGAGGGA 238

DB 14761 CTTGGGTGACAGAGTGAGACCTTGTCTCTAAAAAAGAAAAA 14705

## RESULT 13

US-09-949-016-13444

; Sequence 13444, Application US/09949016

; Patent No. 6812339

; GENERAL INFORMATION:

; APPLICANT: VENTER, J. Craig et al.

; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED

; FILE REFERENCE: CL001307

; CURRENT APPLICATION NUMBER: US/09/949,016

; CURRENT FILING DATE: 2000-04-14

; PRIOR APPLICATION NUMBER: 60/241,755

; PRIOR FILING DATE: 2000-10-20

; PRIOR APPLICATION NUMBER: 60/237,768

; PRIOR FILING DATE: 2000-10-03

; PRIOR APPLICATION NUMBER: 60/231,498

; PRIOR FILING DATE: 2000-09-08

; NUMBER OF SEQ ID NOS: 207012

; SOFTWARE: FastSeq for Windows Version 4.0

; SEQ ID NO 13444

; LENGTH: 172677

; TYPE: DNA

; ORGANISM: Human

; US-09-949-016-13444

Query Match 13.8%; Score 137.8; DB 4; Length 172677;

Best Local Similarity 70.5%; Pred. No. 3.2e-31;

Matches 184; Conservative 0; Mismatches 77; Indels 0; Gaps 0;

QY 3 AAACGAGCCTGGTCAACATAGCAGGAGCTCCATCTCTACAAAAAATAATTAATAATC 62

DB 92964 AGACGAGCCTGGGCAACATAGCAGGAGCTCTCTACAAAAAATAATTAATAAT 93023

QY 63 AGCCAGGACAGTGGTGTGTCTGTAGTCCAGCTACTGGGAATCTAGGTGAGGGA 122

DB 93024 AGCTAGGACATAGCAGTGTGTCTATAGTCCAGCTACTCAGGAGCAGGTTGGGAGGA 93083

QY 123 TTGCTTAAGCCCGGAGGCGGAGCTGTAGTGAGCCATGATCATACCTGCACTAGAGC 182

DB 93084 TCGCTTGAACCCAGGAGGTGAGGCTGCGAGTGTGATCAGCTGCTCCAGC 93143

QY 183 CTGGACAACAGAGTGAGCCGATCACTATAAATAATTTTGAAGGAGGAGGAAAGG 242

DB 93144 CTAGGTGACAGAGAAAGACCTTGTCTCTCAAGAAATAGCAACAAATAAGCCTATCAGTA 93203

```
QY 243 GTCTCCCTTTGTTTCAAT 263
| | | | |
Db 93204 ATATCCCAATGTTAATAAT 93224

RESULT 14
US-09-949-016-13675/c
; Sequence 13675, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: CL001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; CURRENT FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 13675
; LENGTH: 235452
; TYPE: DNA
; ORGANISM: Human
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (1)..(235452)
; OTHER INFORMATION: n = A, T, C or G
US-09-949-016-13675

Query Match 13.7%; Score 136.8; DB 4; Length 235452;
Best Local Similarity 76.4%; Pred. No. 8e-31;
Matches 168; Conservative 0; Mismatches 52; Indels 0; Gaps 0;

QY 2 AAACAGCCTGGTCAACATAGCAAGACTCCATCTCTACAAAAAATAATTTAAAAAT 61
| | | | |
Db 114797 AGACAGCTTGAGCAACATAGTGAGGCGCTGTCTCTACAAAAATAAAAGTTTAAAAAT 114738

QY 62 CAGCCAGGACAGTGTGTGTCTGTAGTCCAGCTACTGGGAATCTGAGGTGAGAGG 121
| | | | |
Db 114737 TGCCCAAGCATGTGTGTGTCTGTAGTCCAGCTACTTTAGAGACTGAGGTGGAGG 114678

QY 122 ATTGCTTAAGCCCGGAGGCGAGGCTGTAGTGAGCCATGATCATACCACTGCACCTAGAG 181
| | | | |
Db 114677 ATCGATTGAGCCCGGAAAGCAGAGACTGCGAGTGAGCCAAAGATCGCACCTGCACTCTAG 114618

QY 182 CCTGGACAACAGTGCAGCCGATCCTCAAAAAATAAT 221
| | | | |
Db 114617 CATAGGCAACAGAGTGAGACTCTGTCTCAAAAAATAAGT 114578

RESULT 15
US-09-949-016-127367
; Sequence 127367, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: CL001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; CURRENT FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
```

```
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 127367
; LENGTH: 601
; TYPE: DNA
; ORGANISM: Human
; US-09-949-016-127367

Query Match 13.6%; Score 136.6; DB 4; Length 601;
Best Local Similarity 76.5%; Pred. No. 2.1e-32;
Matches 166; Conservative 1; Mismatches 50; Indels 0; Gaps 0;

QY 3 AAACAGCCTGGTCAACATAGCAAGACTCCATCTCTACAAAAAATAATTTAAAAATC 62
| | | | |
Db 110 AGACAGCCTGGGCAACATAGTGAGACCTGACTCTAGAAAAACTAAAAAATAAAAAAT 169

QY 63 AGCCAGGCAACAGTGTGTGTCTGTAGTCCAGCTACTGGGAATACTGAGGTGAGAGGA 122
| | | | |
Db 170 AGACAGGCAATGTTGGCAGCTGTGCTGTAGTCCAGCTACTCAGGAGGCTGAGGTGGAGGA 229

QY 123 TTGCTTAAGCCCGGAGGCGAGGCTGTAGTGAGCCATGATCATACCACTGCACCTAGAGC 182
| | | | |
Db 230 TCATTGAGCCCTGGAGGTTGAACTGCAGTAACTGATGATGATGCTGCTGCACTGCCAGC 289

QY 183 CTGGACAACAGAGTGAGACCGAATCACTAAAAATAAA 219
| | | | |
Db 290 CTGGCAACAGMTGAGACCCCTGTCTCAAAAAATAAA 326
```

Search completed: March 21, 2005, 15:47:18  
Job time : 173.991 secs

GenCore version 5.1.6  
Copyright (c) 1993 - 2005 Compugen Ltd.

OM nucleic - nucleic search, using sw model

Run on: March 21, 2005, 14:19:42 ; Search time 598.681 Seconds  
(without alignments)  
9953.840 Million cell updates/sec

Title: US-09-820-095B-3\_COPY\_2000\_3000  
Perfect score: 1001  
Sequence: 1 atctgactcatgtgccgcg.....ctgaacacccgcacatgcagc 1001

Scoring table: IDENTITY NUC  
Gapop 10\_0 , Gapext 1.0

Searched: 5544816 seqs, 2976611598 residues

Total number of hits satisfying chosen parameters: 11089632

Minimum DB seq length: 0  
Maximum DB seq length: 2000000000  
Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 45 summaries

Database : Published Applications NA:  
1: /cgn2\_6/ptodata/1/pubpna/US07\_PUBCOMB.seq:  
2: /cgn2\_6/ptodata/1/pubpna/PCT\_NEW\_PUB.seq:  
3: /cgn2\_6/ptodata/1/pubpna/US06\_NEW\_PUB.seq:  
4: /cgn2\_6/ptodata/1/pubpna/US06\_PUBCOMB.seq:  
5: /cgn2\_6/ptodata/1/pubpna/US07\_NEW\_PUB.seq:  
6: /cgn2\_6/ptodata/1/pubpna/PCTUS\_PUBCOMB.seq:  
7: /cgn2\_6/ptodata/1/pubpna/US08\_NEW\_PUB.seq:  
8: /cgn2\_6/ptodata/1/pubpna/US08\_PUBCOMB.seq:  
9: /cgn2\_6/ptodata/1/pubpna/US09A\_PUBCOMB.seq:  
10: /cgn2\_6/ptodata/1/pubpna/US09B\_PUBCOMB.seq:  
11: /cgn2\_6/ptodata/1/pubpna/US09C\_PUBCOMB.seq:  
12: /cgn2\_6/ptodata/1/pubpna/US09\_NEW\_PUB.seq:  
13: /cgn2\_6/ptodata/1/pubpna/US10A\_PUBCOMB.seq:  
14: /cgn2\_6/ptodata/1/pubpna/US10B\_PUBCOMB.seq:  
15: /cgn2\_6/ptodata/1/pubpna/US10C\_PUBCOMB.seq:  
16: /cgn2\_6/ptodata/1/pubpna/US10D\_PUBCOMB.seq:  
17: /cgn2\_6/ptodata/1/pubpna/US10E\_PUBCOMB.seq:  
18: /cgn2\_6/ptodata/1/pubpna/US10F\_PUBCOMB.seq:  
19: /cgn2\_6/ptodata/1/pubpna/US10\_NEW\_PUB.seq:  
20: /cgn2\_6/ptodata/1/pubpna/US11\_NEW\_PUB.seq:  
21: /cgn2\_6/ptodata/1/pubpna/US60\_NEW\_PUB.seq:  
22: /cgn2\_6/ptodata/1/pubpna/US60\_PUBCOMB.seq:

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	1001	100.0	16449	10	US-09-820-095-3
2	516.6	51.6	647	13	US-10-027-632-158909
3	516.6	51.6	647	17	US-10-027-632-158909
c	485	48.5	517	16	US-10-029-386-646
5	443.2	44.3	565	9	US-09-864-761-9732
6	345.4	34.5	556	16	US-10-029-386-20399
7	177	17.7	185	9	US-09-864-761-26122
8	156.4	15.6	2693	10	US-09-820-095-1
c	151	15.1	151	16	US-10-029-386-14351
10	958	6.9	958	19	US-10-895-225A-38
11	69	6.9	1583	17	US-10-336-472-51

12	69	6.9	1616	17	US-10-336-472-53	Sequence 53, Appl
13	69	6.9	1978	17	US-10-172-118-786	Sequence 786, App
14	69	6.9	1978	17	US-10-342-887-786	Sequence 786, App
15	69	6.9	1978	18	US-10-370-715B-571	Sequence 571, App
16	67.6	6.8	2299	19	US-10-895-225A-54	Sequence 54, Appl
17	67.4	6.7	1956	9	US-09-864-864-331	Sequence 311, App
18	67.4	6.7	1986	18	US-10-283-975A-239	Sequence 239, App
19	65.6	6.6	1926	16	US-10-133-013-149	Sequence 149, App
20	60	6.0	60	10	US-09-908-975-11060	Sequence 11060, A
21	56.8	5.7	671	14	US-10-184-644-346	Sequence 346, App
22	56.8	5.7	671	14	US-10-184-634-346	Sequence 346, App
C 23	56.8	5.7	847	18	US-10-425-115-146990	Sequence 146990, A
C 24	54.8	5.5	636	18	US-10-425-115-168126	Sequence 168126, A
C 25	54.2	5.4	673	18	US-10-425-115-11145	Sequence 11145, A
C 26	54	5.4	545	18	US-10-437-963-56258	Sequence 56258, A
C 27	54	5.4	916	18	US-10-425-115-47293	Sequence 47293, A
C 28	53.8	5.4	588	18	US-10-021-323-9377	Sequence 9377, Ap
29	53.6	5.4	3163	15	US-10-017-161-1857	Sequence 1857, Ap
30	53.6	5.4	3163	17	US-10-292-798-1513	Sequence 1513, Ap
31	53.4	5.3	740	18	US-10-425-115-131885	Sequence 131885, A
32	53	5.3	5452	15	US-10-017-161-1481	Sequence 1481, Ap
33	53	5.3	5452	17	US-10-292-798-1189	Sequence 1189, Ap
34	52.8	5.3	717	17	US-10-424-599-121376	Sequence 121376, A
35	52.2	5.2	809	17	US-10-424-599-26988	Sequence 26988, A
36	51.8	5.2	674	17	US-10-424-599-69089	Sequence 69089, A
C 37	51.6	5.2	630	18	US-10-437-963-18774	Sequence 18774, A
38	51.4	5.1	3133	15	US-10-017-161-1483	Sequence 1483, Ap
39	51.4	5.1	3133	17	US-10-292-798-1191	Sequence 1191, Ap
40	51.2	5.1	638	18	US-10-437-963-1432	Sequence 1432, Ap
C 41	51.2	5.1	796	18	US-10-425-115-178533	Sequence 178533, A
C 42	51.2	5.1	925	18	US-10-437-963-44536	Sequence 44536, A
C 43	51	5.1	956	13	US-10-027-632-31508	Sequence 31508, A
C 44	51	5.1	956	17	US-10-027-632-31508	Sequence 31508, A
C 45	51	5.1	1211	18	US-10-425-115-93385	Sequence 93385, A

ALIGNMENTS

RESULT 1  
US-09-820-095-3  
; Sequence 3, Application US/09820095  
; Publication No. US20030233668A1  
; GENERAL INFORMATION:  
; APPLICANT: WEI, Ming-Hui et al  
; TITLE OF INVENTION: ISOLATED HUMAN G-PROTEIN COUPLED  
; TITLE OF INVENTION: RECEPTORS, NUCLEIC ACID MOLECULES ENCODING HUMAN GPCR  
; TITLE OF INVENTION: PROTEINS, AND USES THEREOF  
; FILE REFERENCE: CL001202  
; CURRENT APPLICATION NUMBER: US/09/820,095  
; CURRENT FILING DATE: 2001-03-29  
; NUMBER OF SEQ ID NOS: 4  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 3  
; LENGTH: 16449  
; TYPE: DNA  
; ORGANISM: Human  
US-09-820-095-3

Query Match	100.0%;	Score	1001;	DB	10;	Length	16449;
Best Local Similarity	100.0%;	Pred. No.	5.7e-286;				
Matches	1001;	Conservative	0;	Mismatches	0;	Indels	0;
QY	1	ATGCTGACTCATGTGCGCCGACGTAGCAGAGCTGGCAGCATGGCTCCCGAGGGGTAC	60				
Db	2000	ATGCTGACTCATGTGCGCCGACGTAGCAGAGCTGGCAGCATGGCTCCCGAGGGGTAC	2059				
QY	61	GACAGCTGGGGCTTCTGGATTATTAAGACGGAGAGTATGTGATGACCAAGAACTGGCG	120				
Db	2060	GACAGCTGGGGCTTCTGGATTATTAAGACGGAGAGTATGTGATGACCAAGAACTGGCG	2119				
QY	121	GGTGGCGCCCTGACAGAGCTGCTGAGTTGGGATCGTGTCTATGTAGGGTAAAGA	180				

Db 2120 GGTGGGCGCCCTGACAGGCTGCTGCAGTTTGGGATCGTGGTCTATGTGTAGGGTAAGA 2179  
QY 181 GAGAAAGCTTTTGGCCAGCTCGAGGGGCAAGGGAAGAGGTGGGGGTGGGGCTTGGTC 240  
Db 2180 GAGAAAGCTTTTGGCCAGCTCGAGGGGCAAGGGAAGAGGTGGGGGTGGGGCTTGGTC 2239  
QY 241 CTCTCGGTTGAAGTTGAGGGTTGGGCTGTTTAGGGGCTGGAGTGAAGGGGCGAGATTG 300  
Db 2240 CTGCTGGTTGAAGTTGAGGGTTGGGCTGTTTAGGGGCTGGAGTGAAGGGGCGAGATTG 2299  
QY 301 GGAAGGGGTTGGGAGAGCTAGCGGATACAAGACAGAGAGCAAGAACTGTGTGTT 360  
Db 2300 GGAAGGGGTTGGGAGAGCTAGCGGATACAAGACAGAGAGCAAGAACTGTGTGTT 2359  
QY 361 TGTCTGTGTGTCACCTGCTCTCTCCAGGCCCCCACCAGGCCCCCACCAGGGGGCA 420  
Db 2360 TGTCTGTGTGTCACCTGCTCTCTCCAGGCCCCCACCAGGCCCCCACCAGGGGGCA 2419  
QY 421 CATGACATAGTCTTAACTCTGTGAGAGCTGAGGACCTAGGCCCCCAGAGAGACCA 480  
Db 2420 CATGACATAGTCTTAACTCTGTGAGAGCTGAGGACCTAGGCCCCCAGAGAGACCA 2479  
QY 481 GCTGTATCTCGGTCAGGAGAGTCTGTAAAGGGGAAAGCTGGATCTAGTCAAGCTGGGGT 540  
Db 2480 GCTGTATCTCGGTCAGGAGAGTCTGTAAAGGGGAAAGCTGGATCTAGTCAAGCTGGGGT 2539  
QY 541 GGGTGTGCTAGTGAAGGTGATTGTCTGAGGGCAATTGGCTCTCTGATGATGGCTGGAG 600  
Db 2540 GGGTGTGCTAGTGAAGGTGATTGTCTGAGGGCAATTGGCTCTCTGATGATGGCTGGAG 2599  
QY 601 CTTCTGTCTCATTCAGGGGCTCTGAGTGGGAAAGTGGGGCCAGAGAGGAGTGGGGCTT 660  
Db 2600 CTTCTGTCTCATTCAGGGGCTCTGAGTGGGAAAGTGGGGCCAGAGAGGAGTGGGGCTT 2659  
QY 661 CGATGTTGGGCGGGAGCCCTGTAGGGTGTGGGGGAGAACTGAGCATGTAGGGCTCAGCT 720  
Db 2660 CGATGTTGGGCGGGAGCCCTGTAGGGTGTGGGGGAGAACTGAGCATGTAGGGCTCAGCT 2719  
QY 721 CGGCCCTGTCTACACGCTGGGGACACACACTGCGGACTTCTCTCCCGAGGTG 780  
Db 2720 CGGCCCTGTCTACACGCTGGGGACACACACTGCGGACTTCTCTCCCGAGGTG 2779  
QY 781 GGCTCTCTCGCCAAAGAGCTTACAGAGCGGGACCTGGAAACCCAGTTTTCATCAT 840  
Db 2780 GGCTCTCTCGCCAAAGAGCTTACAGAGCGGGACCTGGAAACCCAGTTTTCATCAT 2839  
QY 841 CACCAAACTCAAAGGGGTTTCCGTCACTCAGATCAAGAGAGCTTGGAAAACCGGCTGTGGGA 900  
Db 2840 CACCAAACTCAAAGGGGTTTCCGTCACTCAGATCAAGAGAGCTTGGAAAACCGGCTGTGGGA 2899  
QY 901 TGTGGCGGACTTCGTGAAGCCACTCAGGTGGGGCCCTGATGTTGCTGACGGGGCGCA 960  
Db 2900 TGTGGCGGACTTCGTGAAGCCACTCAGGTGGGGCCCTGATGTTGCTGACGGGGCGCA 2959  
QY 961 AGTCCTTTCCCACTGACAGCTTGAACACCCCGCCATGCAGC 1001  
Db 2960 AGTCCTTTCCCACTGACAGCTTGAACACCCCGCCATGCAGC 3000

RESULT 2

US-10-027-632-158909  
; Sequence 158909, Application US/10027632  
; Publication No. US20020198371A1  
; GENERAL INFORMATION:  
; APPLICANT: Wang, David G.  
; TITLE OF INVENTION: Identification and Mapping of Single Nucleotide  
; TITLE OF INVENTION: Polymorphisms in the Human Genome  
; FILE REFERENCE: 108827.129  
; CURRENT APPLICATION NUMBER: US/10/027,632  
; CURRENT FILING DATE: 2002-04-30  
; PRIOR APPLICATION NUMBER: US 60/218,006  
; PRIOR FILING DATE: 2000-07-12  
; PRIOR APPLICATION NUMBER: US 60/198,676

; PRIOR FILING DATE: 2000-04-20  
; PRIOR APPLICATION NUMBER: US 60/193,483  
; PRIOR FILING DATE: 2000-03-29  
; PRIOR APPLICATION NUMBER: US 60/185,218  
; PRIOR FILING DATE: 2000-02-24  
; PRIOR APPLICATION NUMBER: US 60/167,363  
; PRIOR FILING DATE: 1999-11-23  
; PRIOR APPLICATION NUMBER: US 60/156,358  
; PRIOR FILING DATE: 1999-09-28  
; PRIOR APPLICATION NUMBER: US 60/146,002  
; PRIOR FILING DATE: 1999-08-09  
; NUMBER OF SEQ ID NOS: 325720  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 158909  
; LENGTH: 647  
; TYPE: DNA  
; ORGANISM: Human  
US-10-027-632-158909  
  
Query Match 51.6%; Score 516.6; DB 13; Length 647;  
Best Local Similarity 99.8%; Pred. No. 1e-142; 0; Indels 0; Gaps 0;  
Matches 516; Conservative 1; Mismatches 0; Indels 0; Gaps 0;  
  
QY 485 TATCTCGGCTCAGGAGAGTCTGTAAAGGGGAAAGCTGGATCTAGTCAAGCTGGGGTGGGT 544  
Db 1 TATCTCGGCTCAGGAGAGTCTGTAAAGGGGAAAGCTGGATCTAGTCAAGCTGGGGTGGGT 60  
QY 545 GCTGGCTAGTGAAGGTGATTGTCTGAGGCAATTGGCTCTCTGATGATGGCTGGAGCTTC 604  
Db 61 GCTGGCTAGTGAAGGTGATTGTCTGAGGCAATTGGCTCTCTGATGATGGCTGGAGCTTC 120  
QY 605 TGTCTCATTCAGGGGCTCTGAGTGGGAAAGTGGGGCCAGAGAGGAGTGGGGCTTCGAT 664  
Db 121 TGTCTCATTCAGGGGCTCTGAGTGGGAAAGTGGGGCCAGAGAGGAGTGGGGCTTCGAT 180  
QY 665 GTTGGGCGGGAGCCTGTAGGGTGTGGGGGAGAACTGAGCATGTAGGGCTCAGCTCCGC 724  
Db 181 GTTGGGCGGGAGCCTGTAGGGTGTGGGGGAGAACTGAGCATGTAGGGCTCAGCTCCGC 240  
QY 725 CCCTGTCTACACCTGGGGACACACACTGCGGACTTCTCTCCCGAGGTGGGT 784  
Db 241 CCCTGTCTACACCTGGGGACACACACTGCGGACTTCTCTCCCGAGGTGGGT 300  
QY 785 CTCCTCGCCAAAGAGCTTACAGAGCGGGACCTGGAAACCCAGTTTTCATCATCACC 844  
Db 301 CTCCTCGCCAAAGAGCTTACAGAGCGGGACCTGGAAACCCAGTTTTCATCATCACC 360  
QY 845 AAACCTCAAAGGGGTTTCCGTCACTCAGATCAAGAGAGCTTGGAAAACCGGCTGTGGGATGTG 904  
Db 361 AAACCTCAAAGGGGTTTCCGTCACTCAGATCAAGAGAGCTTGGAAAACCGGCTGTGGGATGTG 420  
QY 905 GCGGACTTCGTGAAGCCACTCAGGTGGGGCCCTGATGTTGCTGACGGGGCGCAAGTC 964  
Db 421 GCGGACTTCGTGAAGCCACTCAGGTGGGGCCCTGATGTTGCTGACGGGGCGCAAGTC 480  
QY 965 CTTTCCCACTGACAGCTTGAACACCCCGCCATGCAGC 1001  
Db 481 CTTTCCCACTGACAGCTTGAACACCCCGCCATGCAGC 517

RESULT 3

US-10-027-632-158909  
; Sequence 158909, Application US/10027632  
; Publication No. US20030204075A9  
; GENERAL INFORMATION:  
; APPLICANT: Wang, David G.  
; TITLE OF INVENTION: Identification and Mapping of Single Nucleotide  
; TITLE OF INVENTION: Polymorphisms in the Human Genome  
; FILE REFERENCE: 108827.129  
; CURRENT APPLICATION NUMBER: US/10/027,632  
; CURRENT FILING DATE: 2002-04-30  
; PRIOR APPLICATION NUMBER: US 60/218,006  
; PRIOR FILING DATE: 2000-07-12

```

; PRIOR APPLICATION NUMBER: US 60/198,676
; PRIOR FILING DATE: 2000-04-20
; PRIOR APPLICATION NUMBER: US 60/193,483
; PRIOR FILING DATE: 2000-03-29
; PRIOR APPLICATION NUMBER: US 60/185,218
; PRIOR FILING DATE: 2000-02-24
; PRIOR APPLICATION NUMBER: US 60/167,363
; PRIOR FILING DATE: 1999-11-23
; PRIOR APPLICATION NUMBER: US 60/156,358
; PRIOR FILING DATE: 1999-09-28
; PRIOR APPLICATION NUMBER: US 60/146,002
; PRIOR FILING DATE: 1999-08-09
; NUMBER OF SEQ ID NOS: 325720
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 158909
; LENGTH: 647
; TYPE: DNA
; ORGANISM: Human
US-10-027-632-158909

```

Query Match	51.6%	Score 516.6	DB 17	Length 647
Best Local Similarity	99.8%	Pred. No. 1e-142		
Matches 516	Conservative	1	Mismatches 0	Indels 0
Gaps				0

485	QY	TATCTCGGGTCAGGAGAGTCTGTAAAGGGGAAGCTGGATCTATGTCAGGCTGGGGGTGGGT	544
1	Db	 TATCTCGGGTCAGGAGAGTCTGTAAAGGGGAAGCTGGATCTATGTCAGGCTGGGGGTGGGT	60
545	QY	GCTGGCTAGTGAAGTGATTTGTCGAGGGCAATTGGCTCTCTGATGCATGGCTGGAGCTTC	604
61	Db	 GCTGGCTAGTGAAGTGATTTGTCGAGGGCAATTGGCTCTCTGATGCATGGCTGGAGCTTC	120
605	QY	TGTTCTCATTTACGGGGGTCTCGAGTGGGAAGTGGGGCCAGAGAGGAGTGGGGCTTCGAT	664
121	Db	 TGTTCTCATTTACGGGGGTCTCGAGTGGGAAGTGGGGCCAGAGAGGAGTGGGGCTTCGAT	180
665	QY	GTGGGCCGGGAGCCCTGTAGGGTGTGGGGGGAGAACTGAGCATGTAGGGCTCAGCTCCGC	724
181	Db	 GTGGGCCGGGAGCCCTGTAGGGTGTGGGGGGAGAACTGAGCATGTAGGGCTCAGCTCCGC	240
725	QY	CCCTGTCACTACACGCTGGGAGACACACACTGCCCGACTTCTCTCCCGAGGTGGGT	784
241	Db	 CCCTGTCACTACACGCTGGGAGACACACACTGCCCGACTTCTCTCTCCCGAGGTGGGT	300
785	QY	CTTCCTCGCCAAAAGGCTACCGAGCGGAGACTGGNACCCCAAGTTTCCATCATCACCC	844
301	Db	 CTTCCTCGCCAAAAGGCTACCGAGCGGAGACTGGNACCCCAAGTTTCCATCATCACCC	360
845	QY	AAACTCAAGGGGTTTCCGTCACTCAGATCAAGAGCTTGGAAACCGGCTGTGGGATGTG	904
361	Db	 AAACTCAAGGGGTTTCCGTCACTCAGATCAAGAGCTTGGAAACCGGCTGTGGGATGTG	420
905	QY	GCCGACTTCGTGAAGCCACCTCAGGTGGGGGCCCTGATTTGCTGACGGGGGGCGCAAGTC	964
421	Db	 GCCGACTTCGTGAAGCCACCTCAGGTGGGGGCCCTGATTTGCTGACGGGGGGCGCAAGTC	480
965	QY	CTTTTCCCCACTGACAGCTGAAACCCCGCCCATGAGC	1001
481	Db	 CTTTTCCCCACTGACAGCTGAAACCCCGCCCATGAGC	517

```

RESULT 4
US-10-029-386-646/c
; Sequence 646, Application US/10029386
; Publication No. US20030194704A1
; GENERAL INFORMATION:
; APPLICANT: Penn, Sharron G.
; APPLICANT: Penn, Sharron G.
; APPLICANT: Hanzel, David K.
; TITLE OF INVENTION: HUMAN GENOME-DERIVED SINGLE EXON NUCLEIC ACID PROBES USEFUL FOR
; TITLE OF INVENTION: EXPRESSION ANALYSIS TWO
; FILE REFERENCE: AEMICA-X-2
; CURRENT APPLICATION NUMBER: US/10/029.386

```

```

; CURRENT FILING DATE: 2001-12-20
; NUMBER OF SEQ ID NOS: 34288
; SOFTWARE: Annonmax Sequence Listing Engine vers. 1.1
; SEQ ID NO 646
; LENGTH: 517
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; OTHER INFORMATION: MAP TO CHR22_179..0
; OTHER INFORMATION: EXPRESSED IN HELA, SIGNAL = 0.86
; OTHER INFORMATION: EXPRESSED IN FETAL LIVER, SIGNAL = 1.5
; OTHER INFORMATION: EXPRESSED IN LUNG, SIGNAL = 1.4
; OTHER INFORMATION: EXPRESSED IN PLACENTA, SIGNAL = 1.5
; OTHER INFORMATION: EXPRESSED IN BONE MARROW, SIGNAL = 1.7
; OTHER INFORMATION: EXPRESSED IN BRAIN, SIGNAL = 1.6
; OTHER INFORMATION: EXPRESSED IN ADULT LIVER, SIGNAL = 1.3
; OTHER INFORMATION: EXPRESSED IN HEART, SIGNAL = 1.2
; OTHER INFORMATION: NT HIT: AB8002059..1, EVALUAE 0.00e+00
; OTHER INFORMATION: EST HUMAN HIT: BT753477.1, EVALUAE 8.00e-81
; OTHER INFORMATION: SWISSPROT HIT: O15547, EVALUAE 6.00e-20
; US-10-029-386-646

```

Query Match	48.5%	Score 485;	DB 16;	Length 517;
Best Local Similarity	100.0%;	Pred. No. 2.3e+133;		
Matches 485;	Conservative	0;	Mismatches 0;	Indels 0;
Gaps	0;			

517	QY	GCTGGATCTTAGTCAGGCTGGGGGTGGGTCTGGCTAGTGAAGGTGATTGTCTGAGGGCAT	576
517	Db	GCTGGATCTTAGTCAGGCTGGGGGTGGGTCTGGCTAGTGAAGGTGATTGTCTGAGGGCAT	458
577	QY	TGGCTCTCTGATGCATGGCTTGGAGCTTCTGTCTCATTCAGGGGGTCTGGAGTGGGAAGTG	636
457	Db	TGGCTCTCTGATGCATGGCTTGGAGCTTCTGTCTCATTCAGGGGGTCTGGAGTGGGAAGTG	398
637	QY	GGGCCAGAGAGGAGTGGGGCTTTCGATGTTGGGCGGGAGCCTGTAGGGTGTGGGGGA	696
397	Db	GGGCCAGAGAGGAGTGGGGCTTTCGATGTTGGGCGGGAGCCTGTAGGGTGTGGGGGA	338
697	QY	GAAC TGAGCATGTAGGGCTCAGCTCCGCCCTGTCTAC TACGCTGGGGACACACACAC	756
337	Db	GAAC TGAGCATGTAGGGCTCAGCTCCGCCCTGTCTAC TACGCTGGGGACACACACAC	278
757	QY	TGCCCGACTTCTCGTCCCGAGTGGGCTCTCTCGCCAAAAGGCTACGAGGAGCGGA	816
277	Db	TGCCCGACTTCTCGTCCCGAGTGGGCTCTCTCGCCAAAAGGCTACGAGGAGCGGA	218
817	QY	CTTGGAACCCAGTTTTTCATCATCAACCAACTCAAAGGGGTTCCTCGTCACTCAGATCAA	876
217	Db	CTTGGAACCCAGTTTTTCATCATCAACCAACTCAAAGGGGTTCCTCGTCACTCAGATCAA	158
877	QY	GGAGCTTGGAAAACGGCTGTGGGATGTGGCGACTTGTGTAAGCCACTCAGGTGGGGC	936
157	Db	GGAGCTTGGAAAACGGCTGTGGGATGTGGCGACTTGTGTAAGCCACTCAGGTGGGGC	98
937	QY	CCTGATGTTGCTGACGGGGGCGAAGTCTTTTCCCCACTGACAGCTGAACACCGGCCAT	996
97	Db	CCTGATGTTGCTGACGGGGGCGAAGTCTTTTCCCCACTGACAGCTGAACACCGGCCAT	38
997	QY	GCAGC 1001	
37	Db	GCAGC 33	

```

RESULT 5
US-09-864-761-9732
; Sequence 9732, Application US/09864761
; Patent No. US20020048763A1
; GENERAL INFORMATION:
; APPLICANT: Penn, Sharon G.
; APPLICANT: Rank, David R.
; APPLICANT: Hanzel, David K.
; APPLICANT: Chen, Wensheng
; TITLE OF INVENTION: HUMAN GENOME-DERI

```

APPLICANT: Chen, Wensheng  
TITLE OF INVENTION: HUMAN GENOME-DERIVED SINGLE EXON NUCLEIC ACID PROBES USEFUL FOR



```
Db 284 GGGGGGGCCCTCCAGAGGCTGCTGCAGTTTGGGATCGTCTATGTGTAGGTAAAGA 343
QY 181 GAGAGAGCTTTTGGCCAGCTGAGGGGCAAGGAGAGGTGGGGGCTTTGGTC 240
Db 344 GAGAGAGCTTTTGGCCAGCTGAGGGGCAAGGAGAGGTGGGGCTTTGGTC 403
QY 241 CTGCTGGGTGAAGTTGAGGTTGGGCTGTTTAGGGGCTGGAGTGAAGGGGCGAGATTG 300
Db 404 CTGCTGGGTGAAGTTGAGGTTGGGCTGTTTAGGGGCTGGAGGGAAGGGGCGCATATG 463
QY 301 GGACGGGGTTGGGGAGAGCTAGGCGGATACAAAGACAGAGAGCAAGCAAGCTGTGTGTT 360
Db 464 GGAAGGGGT-----GGAGGTAGGCATACAAAGACAGAGGAGCAAGCAAGCTGTGTGTT 519
QY 361 TGTCTGTGTGTCACCTGCTCTCTTCCAGGCCCCC 397
Db 520 TGTCTGTGTGTCACCTGCTCTCTTCCAGTCCCTC 556
```

## RESULT 7

```
US-09-864-761-26122
; Sequence 26122, Application US/09864761
; Patent No. US20020048763A1
; GENERAL INFORMATION:
; APPLICANT: Penn, Sharron G.
; APPLICANT: Rank, David R.
; APPLICANT: Hanzel, David K.
; APPLICANT: Chen, Wensheng
; TITLE OF INVENTION: HUMAN GENOME-DERIVED SINGLE EXON NUCLEIC ACID PROBES USEFUL FOR
; TITLE OF INVENTION: GENE EXPRESSION ANALYSIS BY MICROARRAY
```

```
FILE REFERENCE: Aeomica-X-1
CURRENT APPLICATION NUMBER: US/09/864,761
CURRENT FILING DATE: 2001-05-23
PRIOR FILING DATE: US 60/180,312
PRIOR FILING DATE: 2000-02-04
PRIOR APPLICATION NUMBER: US 60/207,456
PRIOR FILING DATE: 2000-05-26
PRIOR APPLICATION NUMBER: US 09/632,366
PRIOR FILING DATE: 2000-08-03
PRIOR APPLICATION NUMBER: GB 24263.6
PRIOR FILING DATE: 2000-10-04
PRIOR APPLICATION NUMBER: US 60/236,359
PRIOR FILING DATE: 2000-09-27
PRIOR APPLICATION NUMBER: PCT/US01/00666
PRIOR FILING DATE: 2001-01-30
PRIOR APPLICATION NUMBER: PCT/US01/00667
PRIOR FILING DATE: 2001-01-30
PRIOR APPLICATION NUMBER: PCT/US01/00664
PRIOR FILING DATE: 2001-01-30
PRIOR APPLICATION NUMBER: PCT/US01/00669
PRIOR FILING DATE: 2001-01-30
PRIOR APPLICATION NUMBER: PCT/US01/00665
PRIOR FILING DATE: 2001-01-30
PRIOR APPLICATION NUMBER: PCT/US01/00668
PRIOR FILING DATE: 2001-01-30
PRIOR APPLICATION NUMBER: PCT/US01/00663
PRIOR FILING DATE: 2001-01-30
PRIOR APPLICATION NUMBER: PCT/US01/00662
PRIOR FILING DATE: 2001-01-30
PRIOR APPLICATION NUMBER: PCT/US01/00661
PRIOR FILING DATE: 2001-01-30
PRIOR APPLICATION NUMBER: PCT/US01/00670
PRIOR FILING DATE: 2001-01-30
PRIOR APPLICATION NUMBER: US 60/234,687
PRIOR FILING DATE: 2000-09-21
PRIOR APPLICATION NUMBER: US 09/608,408
PRIOR FILING DATE: 2000-06-30
PRIOR APPLICATION NUMBER: US 09/774,203
PRIOR FILING DATE: 2001-01-29
NUMBER OF SEQ ID NOS: 49117
SOFTWARE: Annomax Sequence Listing Engine vers. 1.1
SEQ ID NO 26122
LENGTH: 185
```

```
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; OTHER INFORMATION: MAP TO AC002472.3
; OTHER INFORMATION: EXPRESSED IN HELA, SIGNAL = 1.5
; OTHER INFORMATION: EXPRESSED IN BRAIN, SIGNAL = 1.5
; OTHER INFORMATION: EXPRESSED IN HEART, SIGNAL = 1.9
; OTHER INFORMATION: EXPRESSED IN LUNG, SIGNAL = 1.9
; OTHER INFORMATION: NT HIT: AB002059.1, EVALUE 1.00e-90
; OTHER INFORMATION: EST HUMAN HIT: BE876713.1, EVALUE 3.00e-80
; OTHER INFORMATION: SWISSPROT HIT: O15547, EVALUE 2.00e-22
US-09-864-761-26122
```

```
Query Match 17.7%; Score 177; DB 9; Length 185;
Best Local Similarity 97.3%; Pred. No. 3.5e-42;
Matches 180; Conservative 0; Mismatches 5; Indels 0; Gaps 0;
```

```
QY 778 GTGGGCTCTCTCGCCAAAAGGCTTACCAGAGCGGGACCTGGAAACCCAGTTTCCAT 837
Db 1 GTGGGCTCTCTCGCCAAAAGGCTTACCAGAGCGGGACCTGGAAACCCAGTTTCCAT 60
QY 838 CATCACCAAACTCAAAGGGGTTTCCGTCACTCAGATCAAGGAGCTTGGAAACCGGTGTG 897
Db 61 CACAACCAAACTCAAAGGGGTTTCCGTCACTCAGATCAAGGAGCTTGGAAACCGGTGTG 120
QY 898 GGATGTGGCCGACTTCGTGAAGCCACTCAGTGGGGGCCCTGATGTTGCTGACGGGGGC 957
Db 121 GGATGTGGCCGACTTCGTGAAGCCACTCAGTGGGGGCCCTGATGTTGCTGACGGGGGC 180
QY 958 GCAAG 962
Db 181 GCAAG 185
```

## RESULT 8

```
US-09-820-095-1
; Sequence 1, Application US/09820095
; Publication No. US2003023368A1
; GENERAL INFORMATION:
; APPLICANT: Wei, Ming-Hui et al
; TITLE OF INVENTION: ISOLATED HUMAN G-PROTEIN COUPLED
; TITLE OF INVENTION: RECEPTORS, NUCLEIC ACID MOLECULES ENCODING HUMAN GPCR
; TITLE OF INVENTION: PROTEINS, AND USES THEREOF
; FILE REFERENCE: CL001202
; CURRENT APPLICATION NUMBER: US/09/820,095
; CURRENT FILING DATE: 2001-03-29
; NUMBER OF SEQ ID NOS: 4
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 1
; LENGTH: 2693
; TYPE: DNA
; ORGANISM: Human
US-09-820-095-1
```

```
Query Match 15.6%; Score 156.4; DB 10; Length 2693;
Best Local Similarity 93.7%; Pred. No. 7.1e-36;
Matches 163; Conservative 0; Mismatches 11; Indels 0; Gaps 0;
```

```
QY 776 AGTGGGCTCTCTCGCCAAAAGGCTTACCAGAGCGGGACCTGGAAACCCAGTTTCC 835
Db 95 AAGTGGGCTCTCTCGCCAAAAGGCTTACCAGAGCGGGACCTGGAAACCCAGTTTCC 154
QY 836 ATCATCACCAAACTCAAAGGGGTTTCCGTCACTCAGATCAAGGAGCTTGGAAACCGGTG 895
Db 155 ATCATCACCAAACTCAAAGGGGTTTCCGTCACTCAGATCAAGGAGCTTGGAAACCGGTG 214
QY 896 TGGGATGTGGCCGACTTCGTGAAGCCACTCAGTGGGGGCCCTGATGTTGCTG 949
Db 215 TGGGATGTGGCCGACTTCGTGAAGCCACTCAGTGGGGGCCCTGATGTTGCTG 268
```

## RESULT 9

```
US-10-029-386-14351/c
```

Sequence 14351, Application US/10029386  
Publication No. US20030194704A1  
GENERAL INFORMATION:  
APPLICANT: Penn, Sharron G.  
APPLICANT: Hanzel, David K.  
TITLE OF INVENTION: HUMAN GENOME-DERIVED SINGLE EXON NUCLEIC ACID PROBES USEFUL FOR G  
FILE REFERENCE: ABOMICA-X-2  
CURRENT APPLICATION NUMBER: US/10/029,386  
CURRENT FILING DATE: 2001-12-20  
NUMBER OF SEQ ID NOS: 34288  
SOFTWARE: Anomax Sequence Listing Engine vers. 1.1  
SEQ ID NO 14351  
LENGTH: 151  
TYPE: DNA  
ORGANISM: Homo sapiens  
FEATURE:  
OTHER INFORMATION: MAP TO CHR22 179.0  
OTHER INFORMATION: EXPRESSED IN HELA, SIGNAL = 0.86  
OTHER INFORMATION: EXPRESSED IN FETAL LIVER, SIGNAL = 1.5  
OTHER INFORMATION: EXPRESSED IN LUNG, SIGNAL = 1.4  
OTHER INFORMATION: EXPRESSED IN PLACENTA, SIGNAL = 1.5  
OTHER INFORMATION: EXPRESSED IN BONE MARROW, SIGNAL = 1.7  
OTHER INFORMATION: EXPRESSED IN BRAIN, SIGNAL = 1.6  
OTHER INFORMATION: EXPRESSED IN ADULT LIVER, SIGNAL = 1.3  
OTHER INFORMATION: EXPRESSED IN HEART, SIGNAL = 1.2  
OTHER INFORMATION: EST HUMAN HIT: B1757011.1, EVALUE 1.00e-79  
OTHER INFORMATION: NT HIT: g144777539, EVALUE 9.00e-80  
OTHER INFORMATION: SWISSPROT HIT: O15547, EVALUE 9.00e-24  
US-10-029-386-14351

Query Match 15.1%; Score 151; DB 16; Length 151;  
Best Local Similarity 100.0%; Pred. No. 1.7e-34; Indels 0; Gaps 0;  
Matches 151; Conservative 0; Mismatches 0;  
QY 778 GTGGGCTCTCTCCGCAAAAAGGCTTACAGGAGCGGGACCTGGAAACCCAGTTTTCCAT 837  
Db 151 GTGGGCTCTCTCCGCAAAAAGGCTTACAGGAGCGGGACCTGGAAACCCAGTTTTCCAT 92  
QY 838 CATCACTCAAACTCAAGGGGTTTCCCTCACTCAGATCAAGGAGCTTGGAAACCGGCTGTG 897  
Db 91 CATCACTCAAACTCAAGGGGTTTCCCTCACTCAGATCAAGGAGCTTGGAAACCGGCTGTG 32  
QY 898 GGATGTGGCGGACTTCTGTGAAGCCACTCAG 928  
Db 31 GGATGTGGCGGACTTCTGTGAAGCCACTCAG 1

RESULT 10  
US-10-895-225A-38  
Sequence 38, Application US/10895225A  
Publication No. US20050048587A1  
GENERAL INFORMATION:  
APPLICANT: Rao, Patricia  
APPLICANT: Snyder, Jessica  
APPLICANT: Bagley, Andria  
TITLE OF INVENTION: METHODS FOR IDENTIFYING TOLERANCE  
FILE REFERENCE: TLN-025  
CURRENT APPLICATION NUMBER: US/10/895,225A  
CURRENT FILING DATE: 2004-07-19  
PRIOR APPLICATION NUMBER: 60/488,502  
PRIOR FILING DATE: 2003-07-17  
NUMBER OF SEQ ID NOS: 161  
SOFTWARE: FastSeq for Windows Version 4.0  
SEQ ID NO 38  
LENGTH: 958  
TYPE: DNA  
ORGANISM: Homo sapiens  
US-10-895-225A-38

Query Match 6.9%; Score 69; DB 19; Length 958;

Best Local Similarity 61.3%; Pred. No. 4.6e-10;  
Matches 111; Conservative 0; Mismatches 70; Indels 0; Gaps 0;  
QY 769 CCTCCCGAGGTGGGCTCTCTCGCCAAAAGGCTTACAGGAGCGGGACCTGGAAACCCCA 828  
Db 413 CTGGTGTATGGGTGGTCTCTGATTAAGAAGGTTTACCAAGACGTCGACACCTCCCTGCA 472  
QY 829 GTTTTCCATCATCACCACAACTCAAAAGGGGTTTCCGTCACCTCAGATCAAGGAGCTTGGAA 888  
Db 473 GAGTGTCTCATCACCACAAAGTCAAGGGCGTGGCCTTCCACACACCTCGATCTTGGGCA 532  
QY 889 CCGGCTGTGGGATGTGGCGGACTTCTGTGAAGCCACTCAGTGGGGGCGCTGATGTGCT 948  
Db 533 GCGGATCTGGGATGTGGCGGACTTCTGTGAAGCCACTCAGTGGGGGCGGAGAGACGCTCTTTTGT 592  
QY 949 G 949  
Db 593 G 593

RESULT 11  
US-10-336-472-51  
Sequence 51, Application US/10336472  
Publication No. US20040043929A1  
GENERAL INFORMATION:  
APPLICANT: Anderson, David W.  
APPLICANT: Ballinger, Robert A.  
APPLICANT: Baumgartner, Jason C.  
APPLICANT: Burgess, Catherine E.  
APPLICANT: Casman, Stacie J.  
APPLICANT: Chant, John S.  
APPLICANT: Berghs, Constance  
APPLICANT: Gangolli, Essha A.  
APPLICANT: Edinger, Shlomit R.  
APPLICANT: Ellerman, Karen  
APPLICANT: Furtak, Katarzyna  
APPLICANT: Gerlach, Valerie  
APPLICANT: Gilbert, Jennifer A.  
APPLICANT: Gunther, Erik  
APPLICANT: Gorman, Linda  
APPLICANT: Guo, Xiaojia Sasha  
APPLICANT: Ji, Weizhen  
APPLICANT: Li, Li  
APPLICANT: Liu, Xiaohong  
APPLICANT: Miller, Charles E.  
APPLICANT: Millet, Isabelle  
APPLICANT: Padigaru, Muralidhara  
APPLICANT: Patturajan, Meera  
APPLICANT: Rastelli, Luca  
APPLICANT: MacDougall, John R.  
APPLICANT: Mishra, Vishnu  
APPLICANT: Pena, Carol E.A.  
APPLICANT: Spaderna, Steven K.  
APPLICANT: Shinkets, Richard A.  
APPLICANT: Smithson, Glennda  
APPLICANT: Spytek, Kimberly A.  
APPLICANT: Stone, David J.  
APPLICANT: Shenoy, Suresh G.  
APPLICANT: Ort, Tatiana  
APPLICANT: Taupier Jr, Raymond J.  
APPLICANT: Tchernev, Velizar T.  
APPLICANT: Vernet, Corine A.M.  
APPLICANT: Wolenc, Adam R.  
APPLICANT: Zerhusen, Bryan D.  
APPLICANT: Zhong, Mei  
TITLE OF INVENTION: NOVEL PROTEINS AND NUCLEIC ACIDS ENCODING SAME  
FILE REFERENCE: 21402-533C  
CURRENT APPLICATION NUMBER: US/10/336,472  
CURRENT FILING DATE: 2003-01-03  
PRIOR APPLICATION NUMBER: 09/746,491  
PRIOR FILING DATE: 2000-12-20  
PRIOR APPLICATION NUMBER: 10/005,041  
PRIOR FILING DATE: 2001-12-04



```
; PRIOR APPLICATION NUMBER: 10/023,681
; PRIOR FILING DATE: 2001-12-18
; PRIOR APPLICATION NUMBER: 10/024,212
; PRIOR FILING DATE: 2001-12-18
; PRIOR APPLICATION NUMBER: 10/055,569
; PRIOR FILING DATE: 2001-10-26
; PRIOR APPLICATION NUMBER: 10/080,334
; PRIOR FILING DATE: 2002-02-21
; PRIOR APPLICATION NUMBER: 10/092,900
; PRIOR FILING DATE: 2002-03-07
; PRIOR APPLICATION NUMBER: 10/136,826
; PRIOR FILING DATE: 2002-05-01
; PRIOR APPLICATION NUMBER: 10/236,417
; PRIOR FILING DATE: 2002-09-06
; PRIOR APPLICATION NUMBER: 60/345,092
; PRIOR FILING DATE: 2002-01-04
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 230
; SOFTWARE: Curasequelist version 0.1
; SEQ ID NO 51
; LENGTH: 1583
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (16)..(1059)
US-10-336-472-51

Query Match          6.9%; Score 69; DB 17; Length 1583;
Best Local Similarity 61.3%; Pred. No. 5.1e-10;
Matches 111; Conservative 0; Mismatches 70; Indels 0; Gaps 0;

QY 769 CCTCCCCAGGTGGGCTCTCTCGCCAAAAAAGGCTACCAAGGAGCGGAGCTGGAAACCCCA 828
Db 144 CTGGTGGTATGGGTGTCTCTGATAAAGAGGTTACCAAGAGCTCGACACCTCCCTGCA 203

QY 829 GTTTTTCATCATCAACAACTCAAGGGGTTTCGGTCACATCAGATCAAGAGGCTTGAAA 888
Db 204 GAGTGTGTCTATCACCAGAGTCAAGGGCGTGGGCTTCACCAACACCTCGGATCTTGGGCA 263

QY 889 CCGGCTGTGGGATGGCCGACCTCTGTGAGCCACTCTCAGGTGGGGCCCTGATGTGCT 948
Db 264 GCGGATCTGGGATGTCCGCGACTACGTCTATCCAGCCAGGAGAGAACGTCTTTTGT 323

QY 949 G 949
Db 324 G 324

RESULT 12
US-10-336-472-53
; Sequence 53, Application US/10336472
; Publication No. US20040043929A1
; GENERAL INFORMATION:
; APPLICANT: Anderson, David W.
; APPLICANT: Ballinger, Robert A.
; APPLICANT: Baumgartner, Jason C.
; APPLICANT: Burgess, Catherine E.
; APPLICANT: Casman, Stacie J.
; APPLICANT: Chant, John S.
; APPLICANT: Berghs, Constance
; APPLICANT: Gangolli, Baha A.
; APPLICANT: Edinger, Shlomit R.
; APPLICANT: Ellerman, Karen
; APPLICANT: Furtak, Katarzyna
; APPLICANT: Gerlach, Valerie
; APPLICANT: Gilbert, Jennifer A.
; APPLICANT: Gunther, Erik
; APPLICANT: Gorman, Linda
; APPLICANT: Guo, Xiaojia Sasha
; APPLICANT: Ji, Weizhen
; APPLICANT: Li, Li
; APPLICANT: Liu, Xiaohong
```

```
; APPLICANT: Miller, Charles E.
; APPLICANT: Millet, Isabelle
; APPLICANT: Padigar, Muralidhara
; APPLICANT: Patturajan, Meera
; APPLICANT: Rastelli, Luca
; APPLICANT: MacDougall, John R.
; APPLICANT: Mishra, Vishnu
; APPLICANT: Pena, Carol E.A.
; APPLICANT: Spaderna, Steven K.
; APPLICANT: Shinkets, Richard A.
; APPLICANT: Smithson, Glennda
; APPLICANT: Spytek, Kimberly A.
; APPLICANT: Stone, David J.
; APPLICANT: Shenoy, Suresh G.
; APPLICANT: Ort, Tatiana
; APPLICANT: Taupier Jr, Raymond J.
; APPLICANT: Tchernev, Velizar T.
; APPLICANT: Vernet, Corine A.M.
; APPLICANT: Wolenc, Adam R.
; APPLICANT: Zerhusen, Bryan D.
; APPLICANT: Zhong, Mei
; TITLE OF INVENTION: NOVEL PROTEINS AND NUCLEIC ACIDS ENCODING SAME
; FILE REFERENCE: 21402-533C
; CURRENT APPLICATION NUMBER: US/10/336,472
; CURRENT FILING DATE: 2003-01-03
; PRIOR APPLICATION NUMBER: 09/746,491
; PRIOR FILING DATE: 2000-12-20
; PRIOR APPLICATION NUMBER: 10/005,041
; PRIOR FILING DATE: 2001-12-04
; PRIOR APPLICATION NUMBER: 10/023,681
; PRIOR FILING DATE: 2001-12-18
; PRIOR APPLICATION NUMBER: 10/024,212
; PRIOR FILING DATE: 2001-12-18
; PRIOR APPLICATION NUMBER: 10/055,569
; PRIOR FILING DATE: 2001-10-26
; PRIOR APPLICATION NUMBER: 10/080,334
; PRIOR FILING DATE: 2002-02-21
; PRIOR APPLICATION NUMBER: 10/092,900
; PRIOR FILING DATE: 2002-03-07
; PRIOR APPLICATION NUMBER: 10/136,826
; PRIOR FILING DATE: 2002-05-01
; PRIOR APPLICATION NUMBER: 10/236,417
; PRIOR FILING DATE: 2002-09-06
; PRIOR APPLICATION NUMBER: 60/345,092
; PRIOR FILING DATE: 2002-01-04
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 230
; SOFTWARE: Curasequelist version 0.1
; SEQ ID NO 53
; LENGTH: 1616
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (37)..(858)
US-10-336-472-53
```

```
Query Match          6.9%; Score 69; DB 17; Length 1616;
Best Local Similarity 61.3%; Pred. No. 5.1e-10;
Matches 111; Conservative 0; Mismatches 70; Indels 0; Gaps 0;

QY 769 CCTCCCCAGGTGGGCTCTCTCGCCAAAAAAGGCTACCAAGGAGCGGAGCTGGAAACCCCA 828
Db 165 CTGGTGGTATGGGTGTCTCTGATAAAGAGGTTACCAAGAGCTCGACACCTCCCTGCA 224

QY 829 GTTTTTCATCATCAACAACTCAAGGGGTTTCGGTCACATCAGATCAAGAGGCTTGAAA 888
Db 225 GAGTGTGTCTATCACCAGAGTCAAGGGCGTGGGCTTCACCAACACCTCGGATCTTGGGCA 284

QY 889 CCGGCTGTGGGATGGCCGACCTCTGTGAGCCACTCTCAGGTGGGGCCCTGATGTGCT 948
Db 285 GCGGATCTGGGATGTCCGCGACTACGTCTATCCAGCCAGGAGAGAACGTCTTTTGT 344
```



Db 285 GCGATCTGGGATGTCGCCGACTACGTCAATCCAGCCGAGGAGAGACGCTCTTTTGT 344

Qy 949 G 949

Db 345 G 345

Search completed: March 21, 2005, 16:34:21  
Job time : 599.681 secs

**This Page Blank (uspto)**

GenCore version 5.1.6  
Copyright (c) 1993 - 2005 CompuGen Ltd.

OM nucleic - nucleic search, using sw model

Run on: March 21, 2005 ; Search time 170.991 Seconds  
(without alignments)

Title: US-09-820-095B-3\_COPY\_2000\_3000  
Perfect score: 1001  
Sequence: 1 atactgattcatgtgccgc.....ctgaacacccgcacatgcagc 1001

Scoring table: IDENTITY NUC

Scoring code: IDENT11\_NOC  
Gapop 10.0 ; Gapext 1.0

Searched: 1202784 SECS. 818138359 residues

Total number of hits satisfying chosen parameters: 24055568

Minimum DB seq length: 0

Minimum DB seq length: 200000000  
Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%

Post-processing: Minimum Match 0%  
Maximum Match 100%

LIBRARY FIRST 45 SU

Database : Issued Patents NA:  
1. /com2 6/ntcdat3/

```
l: /cgn2_6/podata/l/lna/5A COMB seq: +
2: /cgn2_6/podata/l/lna/5P COMB seq: +
```

```
2: /cgm2_6/ptodata/1/ina/5B_COMB.seq:4
3: /cgm2_6/ptodata/1/ina/5A_COMB.seq:4
```

```
3: /egnz_6/ptodata/1/1ha/6A COMB.req:1
4: /cmz_6/ntodata/1/1na/5R COMB.req:1
```

```
4: /cghz_6/ptodata/1/ina/6B_COMB.req:
5: /com2_6/ntodata/1/ina/PCNTIS_COMB.req:
```

```
3: /cgnz_8/plonata/i/ina/PC1US COMB:se
6: /cm2_6/ntodata/1/ina/backfi]es] se
```

o: /cgnz\_o/prodata/1/1na/pack11test.86

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

## SUMMARIES

Result No.	Score	Query		Length	DB	ID	Description
		Match	%				
1	176.2	17.6	1697	3	US-09-381-681-2		Sequence 2, Appl
2	171.2	17.1	394	3	US-09-191-136-27		Sequence 27, Appl
3	167.2	16.7	1360	3	US-09-191-136-30		Sequence 30, Appl
4	155.4	15.5	1293	3	US-09-381-681-1		Sequence 1, Appl
5	78.8	7.9	25370	4	US-09-949-016-12109		Sequence 12109, A
6	78.8	7.9	25375	4	US-09-949-016-15880		Sequence 15880, A
7	70.6	7.1	1946	4	US-09-949-016-4138		Sequence 4138, Ap
8	69	6.9	1978	4	US-09-949-016-367		Sequence 367, App
c 9	69	6.9	7218	1	US-08-232-463-14		Sequence 14, Appl
10	53.6	5.4	1997	2	US-08-750-134A-6		Sequence 6, Appl
11	53.6	5.4	1997	3	US-09-363-745-6		Sequence 6, Appl
12	49.8	5.0	27600	4	US-09-949-016-15290		Sequence 15290, A
13	48.6	4.9	320	3	US-09-165-264-7		Sequence 7, Appl
c 14	47.8	4.8	152331	3	US-09-128-155-16		Sequence 16, Appl
c 15	47.6	4.8	1166	3	US-09-072-967-323		Sequence 323, App
c 16	47.6	4.8	1166	4	US-09-072-967-328		Sequence 328, App
17	47.4	4.7	318	3	US-09-165-264-12		Sequence 12, Appl
18	47.2	4.7	320	3	US-09-165-264-14		Sequence 14, Appl
19	47.2	4.7	1206	3	US-09-191-608-21		Sequence 21, Appl
20	47.2	4.7	1389	4	US-09-949-016-3548		Sequence 3548, Ap
21	47.2	4.7	1750	4	US-09-016-434-831		Sequence 831, App
22	47.2	4.7	1762	2	US-08-742-621-2		Sequence 2, Appl
c 23	47	4.7	601	4	US-09-949-016-147339		Sequence 147339,
24	47	4.7	23802	4	US-09-949-016-12107		Sequence 12107, A
25	47	4.7	23803	4	US-09-949-016-15878		Sequence 15878, A
26	46.8	4.7	320	3	US-09-165-264-13		Sequence 13, Appl
c 27	46.6	4.7	601	4	US-09-949-016-25173		Sequence 25173, A

C 28	46.6	4.7	601	4	US-09-949-016-25174	Sequence 25174, A
C 29	46.6	4.7	601	4	US-09-949-016-147340	Sequence 147340, A
C 30	46.6	4.7	601	4	US-09-949-016-147341	Sequence 147341, A
C 31	46.6	4.7	1421	3	US-09-191-608-14	Sequence 14, Appl
C 32	46.6	4.7	1499	3	US-09-191-608-16	Sequence 16, Appl
C 33	46	4.6	320	3	US-09-165-264-11	Sequence 11, Appl
C 34	45.6	4.6	865	4	US-09-270-767-11042	Sequence 11042, A
C 35	45.4	4.5	601	4	US-09-949-016-198409	Sequence 198409, A
C 36	45.4	4.5	1436	3	US-09-191-608-13	Sequence 13, Appl
C 37	45.4	4.5	767677	4	US-09-949-016-12147	Sequence 12147, A
C 38	45.4	4.5	767677	4	US-09-949-016-17361	Sequence 17361, A
C 39	45.2	4.5	319	3	US-09-165-264-8	Sequence 8, Appl
C 40	45.2	4.5	72742	4	US-09-949-016-16161	Sequence 16161, A
C 41	44.8	4.5	601	4	US-09-949-016-198408	Sequence 198408, A
C 42	44.4	4.4	2259	2	US-08-845-998-3	Sequence 3, Appl
C 43	44.4	4.4	2259	3	US-09-206-537-3	Sequence 3, Appl
C 44	44.4	4.4	2259	4	US-09-430-854-3	Sequence 3, Appl
C 45	44.2	4.4	1349	3	US-09-191-608-15	Sequence 15, Appl

## ALIGNMENTS

```

RESULT 1
US-09-381-681-2
; Sequence 2, Application US/09381681
; Patent No. 6255472
; GENERAL INFORMATION:
; APPLICANT: TAKAMURA, Takashi
; APPLICANT: NAKAMURA, Yusuke
; TITLE OF INVENTION: HUMAN GENES
; FILE REFERENCE: Q55876
; CURRENT APPLICATION NUMBER: US/09/381,681
; CURRENT FILING DATE: 2000-01-10
; EARLIER APPLICATION NUMBER: JPA 9-093044
; EARLIER FILING DATE: 1997-03-26
; NUMBER OF SEQ ID NOS: 9
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 2
; LENGTH: 1697
; TYPE: DNA
; ORGANISM: Human
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (46)..(1338)
US-09-381-681-2

```

```

Query Match          17.6%; Score 176.2; DB 3; Length 1697;
Best Local Similarity 98.3%; Pred. No. 6.1e-39;
Matches 178; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

Qy      1  ATGCTGACTCATGTGCCCGCAGCTAGCAGAGCTGGCAGCATGGGCTCCCACAGGGGCTAC  60
      |||
Db      6  ATGCTGACTCATGTGCCCGCAGCTAGCAGAGCTGGCAGCATGGGCTCCCACAGGGGCTAC  65

Qy     61  GACAGAGCTGGGGGCTTCTGGATTATAAGACGGAGAGTATGTGATGACACAGGAATCGCG  120
      |||
Db     66  GACAGAGCTGGGGGCTTCTGGATTATAAGACGGAGAGTATGTGATGACACAGGAATCGCG  125

Qy    121  GGTGGGGCGCCCTGCAGAGGCTGCTGCAGTTTGGATCGTGGTCTATGTGGTAGGGTAAGA  180
      |||
Db    126  GGTGGGGCGCCCTGCAGAGGCTGCTGCAGTTTGGATCGTGGTCTATGTGGTAGGGTGGGC  185

Qy    181  G 181
      |
Db    186  G 186

RESULT 2
US-09-191-136-27
; Sequence 27, Application US/09191136B
; Patent No. 6214581
; GENERAL INFORMATION:

```

APPLICANT: Abbott Laboratories  
APPLICANT: Lynch, Kevin J.  
APPLICANT: Burgard, Edward C.  
APPLICANT: Van Biesen, T.  
TITLE OF INVENTION: Nucleic Acids Encoding A Functional Human Purinoreceptor P2X3 and P2X6 And Methods Of Production  
TITLE OF INVENTION: And Use Thereof  
FILE REFERENCE: 6293 US P1  
CURRENT APPLICATION NUMBER: US/09/191,136B  
CURRENT FILING DATE: 1998-11-13  
EARLIER APPLICATION NUMBER: US 09/008,526  
EARLIER FILING DATE: 1998-01-16  
EARLIER APPLICATION NUMBER: US 09/008,185  
EARLIER FILING DATE: 1998-01-16  
EARLIER APPLICATION NUMBER: US 60/071,298  
EARLIER FILING DATE: 1998-01-16  
EARLIER APPLICATION NUMBER: US 60/071,669  
EARLIER FILING DATE: 1998-01-16  
NUMBER OF SEQ ID NOS: 32  
SOFTWARE: FastSeq for Windows Version 3.0  
SEQ ID NO 27  
LENGTH: 394  
TYPE: DNA  
ORGANISM: Artificial Sequence  
FEATURE:  
OTHER INFORMATION: Universal Amplification Sequencing Primer  
US-09-191-136-27

Query Match 17.1%; Score 171.2; DB 3; Length 394;  
Best Local Similarity 98.3%; Pred. No. 8.2e-38;  
Matches 173; Conservative 0; Mismatches 3; Indels 0; Gaps 0;  
QY 1 ATGCTGACTCATGTCGCCGAGCTAGCAGAGCTGCGCAGATGGGTCCCGAGGGCTAC 60  
DB 183 ATGCTGACTCATGTCGCCGAGCTAGCAGAGCTGCGCAGATGGGTCCCGAGGGCTAC 242  
QY 61 GACAGCTGGGGCTTCGTGATTATTAAGACGGAAGATGTGATCACCAGGAACCTGGCG 120  
DB 243 ACAGAGCTGGGGCTTCGTGATTATTAAGACGGAAGATGTGATCACCAGGAACCTGGCG 302  
QY 121 GGTGGCGCCCTGACAGAGCTGCTGAGTTGGATCGTGGTCTATGTGGTAGGGT 176  
DB 303 GGTGGCGCCCTGACAGAGCTGCTGAGTTGGATCGTGGTCTATGTGGTAGGGT 358

RESULT 3  
US-09-191-136-30  
Sequence 30, Application US/09191136B  
Patent No. 6214581  
GENERAL INFORMATION:  
APPLICANT: Abbott Laboratories  
APPLICANT: Lynch, Kevin J.  
APPLICANT: Burgard, Edward C.  
APPLICANT: Van Biesen, T.  
TITLE OF INVENTION: Nucleic Acids Encoding A Functional Human Purinoreceptor P2X3 and P2X6 And Methods Of Production  
TITLE OF INVENTION: And Use Thereof  
FILE REFERENCE: 6293 US P1  
CURRENT APPLICATION NUMBER: US/09/191,136B  
CURRENT FILING DATE: 1998-11-13  
EARLIER APPLICATION NUMBER: US 09/008,526  
EARLIER FILING DATE: 1998-01-16  
EARLIER APPLICATION NUMBER: US 09/008,185  
EARLIER FILING DATE: 1998-01-16  
EARLIER APPLICATION NUMBER: US 60/071,298  
EARLIER FILING DATE: 1998-01-16  
EARLIER APPLICATION NUMBER: US 60/071,669  
EARLIER FILING DATE: 1998-01-16  
NUMBER OF SEQ ID NOS: 32  
SOFTWARE: FastSeq for Windows Version 3.0  
SEQ ID NO 30  
LENGTH: 1360  
TYPE: DNA

ORGANISM: Artificial Sequence  
FEATURE:  
OTHER INFORMATION: Sequencing Primer (polynucleotide)  
US-09-191-136-30  
Query Match 16.7%; Score 167.2; DB 3; Length 1360;  
Best Local Similarity 98.3%; Pred. No. 1.8e-36;  
Matches 169; Conservative 0; Mismatches 3; Indels 0; Gaps 0;  
QY 10 CATGTGCCCGCAGCTAGCAGAGCTGGCAGCATGGGTCCCGAGGGCTACACAGGCTG 69  
DB 15 CATGTGCCCGCAGCTAGCAGAGCTGGCAGCATGGGTCCCGAGGGCTACACAGGCTG 74  
QY 70 GGGGCTTCTGGATTATAAGACGGAAGATGTGATGATCACCAGGAACCTGGCGGTGGCGC 129  
DB 75 GGGGCTTCTGGATTATAAGACGGAAGATGTGATGATCACCAGGAACCTGGCGGTGGCGC 134  
QY 130 CCGCAGAGGCTGCTGCAGTTTGGGATCGTGGTCTATGTGGTAGGGTAAGAG 181  
DB 135 CCGCAGAGGCTGCTGCAGTTTGGGATCGTGGTCTATGTGGTAGGGTAGGGC 186

RESULT 4  
US-09-381-681-1  
Sequence 1, Application US/09381681  
Patent No. 6255472  
GENERAL INFORMATION:  
APPLICANT: TAKINO, Takashi  
APPLICANT: NAKAMURA, Yusuke  
TITLE OF INVENTION: HUMAN GENES  
FILE REFERENCE: Q55876  
CURRENT APPLICATION NUMBER: US/09/381,681  
CURRENT FILING DATE: 2000-01-10  
EARLIER APPLICATION NUMBER: JPA 9-093044  
EARLIER FILING DATE: 1997-03-26  
NUMBER OF SEQ ID NOS: 9  
SOFTWARE: PatentIn Ver. 2.1  
SEQ ID NO 1  
LENGTH: 1293  
TYPE: DNA  
ORGANISM: Human  
US-09-381-681-1

Query Match 15.5%; Score 155.4; DB 3; Length 1293;  
Best Local Similarity 93.6%; Pred. No. 3.3e-33;  
Matches 162; Conservative 0; Mismatches 11; Indels 0; Gaps 0;  
QY 777 GGTGGGCTTCTCTGCCCAAAAAGGCTACAGAGCGGACCTGGAACCCAGTTTCCA 836  
DB 134 GGTGGGCTTCTCTGCCCAAAAAGGCTACAGAGCGGACCTGGAACCCAGTTTCCA 193  
QY 837 TCATCACCAACTCAAAGGGTTTCGGTCACTCAGATCAGAGCTTGGAAACCGGCTGT 896  
DB 194 TCATCACCAACTCAAAGGGTTTCGGTCACTCAGATCAGAGCTTGGAAACCGGCTGT 253  
QY 897 GGGATGTGCCGACTTCGTGAAGCCACTCAGTGGGGCCCTGATGTGCTG 949  
DB 254 GGGATGTGCCGACTTCGTGAAGCCACTCAGTGGGGAGAGACGTGTCTCTTCTG 306

RESULT 5  
US-09-949-016-12109  
Sequence 12109, Application US/09949016  
Patent No. 6812339  
GENERAL INFORMATION:  
APPLICANT: VENTER, J. Craig et al.  
TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF  
FILE REFERENCE: CL001307  
CURRENT APPLICATION NUMBER: US/09/949,016  
CURRENT FILING DATE: 2000-04-14  
PRIOR APPLICATION NUMBER: 60/241,755  
PRIOR FILING DATE: 2000-10-20

;; PRIOR APPLICATION NUMBER: 60/237,768  
;; PRIOR FILING DATE: 2000-10-03  
;; PRIOR APPLICATION NUMBER: 60/231,498  
;; PRIOR FILING DATE: 2000-09-08  
;; NUMBER OF SEQ ID NOS: 207012  
;; SOFTWARE: FastSeq for Windows Version 4.0  
;; SEQ ID NO 12109  
;; LENGTH: 25370  
;; TYPE: DNA  
;; ORGANISM: Human  
US-09-949-016-12109

Query Match 7.9%; Score 78.8; DB 4; Length 25370;  
Best Local Similarity 61.9%; Pred. No. 2.4e-11;  
Matches 125; Conservative 0; Mismatches 77; Indels 0; Gaps 0;  
QY 752 CACACTGCCGCGACTTCTCTCCCGAGTGGGCTCTCTCCGCAAAAGGCTTACCAAGAG 811  
Db 6224 CCACGTACCGGCCCTTCTCCACAGATGGGTCTCTGATTAAGAGGGTTACCAAGAC 6283  
QY 812 CGGACCTTGAACCCAGTTTCCATCATCACCAACTCAAAGGGGTTTCCGTCACTCAG 871  
Db 6284 GTCCACACTCTCTCGAGAGTGTGTATCATCACCAGTCAAGGGCTTCCCAAC 6343  
QY 872 ATCAAGAGCTTGAACCGGCTGTGGGATGGCGGACTTCGTGAAGCCACTCAGGTG 931  
Db 6344 ACCTCGGATCTTGGGACGGGATCTGGGATGTCCGCGACTACGTCAATCCAGCCCGGTC 6403  
QY 932 GGGCCCTGATGTTGCTGACGG 953  
Db 6404 TGAGTCCCGACCTAGCACACGG 6425

RESULT 6  
US-09-949-016-15880  
;; Sequence 15880, Application US/09949016  
;; Patent No. 6812339  
;; GENERAL INFORMATION:  
;; APPLICANT: VENTER, J. Craig et al.  
;; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED  
;; FILE REFERENCE: CL001307  
;; CURRENT APPLICATION NUMBER: US/09/949,016  
;; CURRENT FILING DATE: 2000-04-14  
;; PRIOR APPLICATION NUMBER: 60/241,755  
;; PRIOR FILING DATE: 2000-10-20  
;; PRIOR APPLICATION NUMBER: 60/237,768  
;; PRIOR FILING DATE: 2000-10-03  
;; PRIOR APPLICATION NUMBER: 60/231,498  
;; PRIOR FILING DATE: 2000-09-08  
;; NUMBER OF SEQ ID NOS: 207012  
;; SOFTWARE: FastSeq for Windows Version 4.0  
;; SEQ ID NO 15880  
;; LENGTH: 25375  
;; TYPE: DNA  
;; ORGANISM: Human  
US-09-949-016-15880

Query Match 7.9%; Score 78.8; DB 4; Length 25375;  
Best Local Similarity 61.9%; Pred. No. 2.4e-11;  
Matches 125; Conservative 0; Mismatches 77; Indels 0; Gaps 0;  
QY 752 CACACTGCCGCGACTTCTCTCCCGAGTGGGCTCTCTCCGCAAAAGGCTTACCAAGAG 811  
Db 6224 CCACGTACCGGCCCTTCTCCACAGATGGGTCTCTGATTAAGAGGGTTACCAAGAC 6283  
QY 812 CGGACCTTGAACCCAGTTTCCATCATCACCAACTCAAAGGGGTTTCCGTCACTCAG 871  
Db 6284 GTCCACACTCTCTCGAGAGTGTGTATCATCACCAGTCAAGGGCTTCCCAAC 6343  
QY 872 ATCAAGAGCTTGAACCGGCTGTGGGATGGCGGACTTCGTGAAGCCACTCAGGTG 931  
Db 6344 ACCTCGGATCTTGGGACGGGATCTGGGATGTCCGCGACTACGTCAATCCAGCCCGGTC 6403

QY 932 GGGCCCTGATGTTGCTGACGG 953  
Db 6404 TGAGTCCCGACCTAGCACACGG 6425  
RESULT 7  
US-09-949-016-4138  
;; Sequence 4138, Application US/09949016  
;; Patent No. 6812339  
;; GENERAL INFORMATION:  
;; APPLICANT: VENTER, J. Craig et al.  
;; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED  
;; FILE REFERENCE: CL001307  
;; CURRENT APPLICATION NUMBER: US/09/949,016  
;; CURRENT FILING DATE: 2000-04-14  
;; PRIOR APPLICATION NUMBER: 60/241,755  
;; PRIOR FILING DATE: 2000-10-20  
;; PRIOR APPLICATION NUMBER: 60/237,768  
;; PRIOR FILING DATE: 2000-10-03  
;; PRIOR APPLICATION NUMBER: 60/231,498  
;; PRIOR FILING DATE: 2000-09-08  
;; NUMBER OF SEQ ID NOS: 207012  
;; SOFTWARE: FastSeq for Windows Version 4.0  
;; SEQ ID NO 4138  
;; LENGTH: 1946  
;; TYPE: DNA  
;; ORGANISM: Human  
US-09-949-016-4138

Query Match 7.1%; Score 70.6; DB 4; Length 1946;  
Best Local Similarity 56.8%; Pred. No. 1.6e-09;  
Matches 130; Conservative 0; Mismatches 99; Indels 0; Gaps 0;  
QY 769 CTTCCCGAGTGGGCTCTCTCTCCGCAAAAGGCTTACAGGAGCGGGACCTGGAAACCCA 828  
Db 165 CTTGGTCTGATGGGTGTTCTCTGATTAAGAGGGTTACCAAGACGTCGACACCTCCCTGCA 224  
QY 829 GTTTTCATCATCACCAACTCAAAGGGGTTTCCGTCACTCAGATCAAGAGCTTGGAAA 888  
Db 225 GAGTCTCTCATCACAAGTCAAGGGCTTCCCTTCCACACACTCGATCTTGGGCA 284  
QY 889 CCGGCTGTGGGATGGCGGACTTCGTGAAGCCACTCAGTGGGGCCCTGATGTTGCT 948  
Db 285 GCGGATCTGGGATGTGCGGACTACGTCAATCCAGCCAGGAGAGACGTCCTTTTCT 344  
QY 949 GACGGGGGGGAGTCTTTTCCGCACTGACGCTTGAACACCCGCCATG 997  
Db 345 GGTCAACCACTGATTTGTGACCCCAACCGCGGAGAACGTCGTGCTG 393

RESULT 8  
US-09-949-016-367  
;; Sequence 367, Application US/09949016  
;; Patent No. 6812339  
;; GENERAL INFORMATION:  
;; APPLICANT: VENTER, J. Craig et al.  
;; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED  
;; FILE REFERENCE: CL001307  
;; CURRENT APPLICATION NUMBER: US/09/949,016  
;; CURRENT FILING DATE: 2000-04-14  
;; PRIOR APPLICATION NUMBER: 60/241,755  
;; PRIOR FILING DATE: 2000-10-20  
;; PRIOR APPLICATION NUMBER: 60/237,768  
;; PRIOR FILING DATE: 2000-10-03  
;; PRIOR APPLICATION NUMBER: 60/231,498  
;; PRIOR FILING DATE: 2000-09-08  
;; NUMBER OF SEQ ID NOS: 207012  
;; SOFTWARE: FastSeq for Windows Version 4.0  
;; SEQ ID NO 367  
;; LENGTH: 1978

```
; TYPE: DNA
; ORGANISM: Human
US-09-949-016-367

Query Match      6.9%; Score 69; DB 4; Length 1978;
Best Local Similarity 61.3%; Pred. No. 4.5e-09;
Matches 111; Conservative 0; Mismatches 70; Indels 0; Gaps 0;

QY 769 CTTCCCGAGTGGGCTCTCTCCGCAAAAGGCTACAGGAGCGGACCTGGNACCCCA 828
Db 165 CTTGGTGTATGGTGTCTCTGATAAAGAGGGTTACCAAGAGCTGCACACCTCCCTGCA 224
QY 829 GTTTTCCATCATCACCAAACTCAAGGGGTTTCCGTCACTCAGATCAAGGAGCTTGGAAA 888
Db 225 GAGTGTGTATCATCACCAAGTCAAGGGCGTGGCTTCAACAACCTCGGATCTGGGCA 284
QY 889 CGGCTGTGGGATGTGGCGGACTTCTGTGAAGCCACTCAGGTGGGGCCCTGATGTGCT 948
Db 285 GCGGATCTGGGATGTGGCGGACTACGTCTATTCAGCCAGGAGAGAAAGCTCTTTTGT 344
QY 949 G 949
Db 345 G 345

RESULT 9
US-08-232-463-14/c
; Sequence 14, Application US/08232463
; Patent No. 5670367
; GENERAL INFORMATION:
; APPLICANT: DORNER, F.
; APPLICANT: SCHEIFLINGER, F.
; APPLICANT: FALKNER, F. G.
; TITLE OF INVENTION: RECOMBINANT FOWLPOX VIRUS
; NUMBER OF SEQUENCES: 52
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Foley & Lardner
; STREET: 1800 Diagonal Road, Suite 500
; CITY: Alexandria
; STATE: VA
; COUNTRY: USA
; ZIP: 22313-0299
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/232,463
; FILING DATE:
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US/07/935,313
; FILING DATE:
; APPLICATION NUMBER: EP 91 114 300.6
; FILING DATE: 26-AUG-1991
; ATTORNEY/AGENT INFORMATION:
; NAME: BENT, Stephen A.
; REGISTRATION NUMBER: 29,768
; REFERENCE/DOCKET INFORMATION: 30472/114 IMMU
; TELEPHONE: (703)836-9300
; TELEFAX: (703)683-4109
; TELEX: 899149
; INFORMATION FOR SEQ ID NO: 14:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 7218 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; IMMEDIATE SOURCE:
; CLONE: pTZ9pt-F1s
US-08-232-463-14

Query Match      6.9%; Score 69; DB 1; Length 7218;
Best Local Similarity 4.7%; Pred. No. 7.7e-09;
Matches 18; Conservative 225; Mismatches 140; Indels 0; Gaps 0;

QY 25 AGCAGGAGTGGCAGCAGTGGCTCCCGAGGGCTACGACAGGCTGGGGCTTCTGGATTA 84
Db 1417 RRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRR 1358
QY 85 TAAGACGGAGAGTATGTATGATCACCAGGAACCTGGCGGGTGGCGCCCTGCAGAGCTGT 144
Db 1357 RRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRR 1298
QY 145 GCAGTTTGGATCGGTCTATGTGTAGGTGTAAGAGAGAGAGCTTTTGGCCAGCTGG 204
Db 1297 RRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRR 1238
QY 205 AGGGCAAGGAGAGGTGGGGGTGGGCTTGGCTCTGCTGGTTGAAGTTGAGGGTTG 264
Db 1237 RRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRR 1178
QY 265 GGCTGTTTAGGGCTGGAGTGAAGGGGCGACATTGGGACGGGTTGGGAGAGCTAGGC 324
Db 1177 RRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRR 1118
QY 325 GATACAGACAGGAGAGCAAGAGCTGTGTGTCTGTGTCTGTGTCTGTCTGTCTCTCC 384
Db 1117 RRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRR 1058
QY 385 TTCCAGGCCCCCACCAGGCC 407
Db 1057 TCCTCGACCTGCAGCAAGCTC 1035

RESULT 10
US-08-750-134A-6
; Sequence 6, Application US/08750134A
; Patent No. 5985603
; GENERAL INFORMATION:
; APPLICANT: VALERA, SOLEDAD
; APPLICANT: BUELL, GARY
; TITLE OF INVENTION: P2X RECEPTORS (PURINOCCEPTOR FAMILY)
; NUMBER OF SEQUENCES: 11
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: NIXON & VANDERHYE P.C.
; STREET: 1100 NORTH GLEBE ROAD
; CITY: ARLINGTON
; STATE: VIRGINIA
; COUNTRY: U.S.A.
; ZIP: 22201-4714
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/750,134A
; FILING DATE: 22-JAN-1997
; CLASSIFICATION: 536
; ATTORNEY/AGENT INFORMATION:
; NAME: CRAWFORD, ARTHUR C.
; REGISTRATION NUMBER: 25,327
; REFERENCE/DOCKET NUMBER: 1430-116
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (703) 816-4006
; TELEFAX: (703) 816-4100
; INFORMATION FOR SEQ ID NO: 6:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 1997 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: cDNA
```



US-08-750-134A-6

Query Match 5.4%; Score 53.6; DB 2; Length 1997;  
Best Local Similarity 62.2%; Pred. No. 8.7e-05;  
Matches 102; Conservative 0; Mismatches 59; Indels 3; Gaps 1;

QY 769 CTCTCCCGAGTGGGCTCTCTCCGCAAAAAGGCTACCGAGCGGAGCTGGAAACCCCA 828  
DB 226 CGTCATCGGTGGGTGTTCTGTGGGAAAAGGCTACCGAGAAACGGACTCCGTGGTC-- 283  
QY 829 GTTTTTCATCATCAACCAACTCAAGGGTTTCGGTCACCTCAGATCAAGAGCTTCGAAA 888  
DB 284 -AGCTCGTGACAAACCAAGCCAAAGTGGGTGTGACCAACACCTCTCAGCTTGGATT 342  
QY 889 CCGGCTGTGGGATGTGGCCGACTTCGTGAAGCCACCTCAGGTGG 932  
DB 343 CCGGATCTGGGAGCTGGCGGACTATGTGATTCAGCTCAGGAGG 386

## RESULT 11

US-09-363-745-6  
; Sequence 6, Application US/09363745  
; Patent No. 6194162  
; GENERAL INFORMATION:  
; APPLICANT: VALERA, SOLEAD  
; APPLICANT: BUELL, GARY  
; TITLE OF INVENTION: P2X RECEPTORS (PURINOCEPTOR FAMILY)  
; NUMBER OF SEQUENCES: 11  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: NIXON & VANDERHYE P.C.  
; STREET: 1100 NORTH GLEBE ROAD  
; CITY: ARLINGTON  
; STATE: VIRGINIA  
; COUNTRY: U.S.A.  
; ZIP: 22201-4714

COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: Patent In Release #1.0, Version #1.30  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/09/363,745  
; FILING DATE:  
; CLASSIFICATION:  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: 08/750,134  
; FILING DATE:  
; ATTORNEY/AGENT INFORMATION:  
; NAME: CRAWFORD, ARTHUR C.  
; REGISTRATION NUMBER: 25,327  
; REFERENCE/DOCKET NUMBER: 1430-116  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (703) 816-4006  
; TELEFAX: (703) 816-4100

INFORMATION FOR SEQ ID NO: 6:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 1997 base pairs  
; TYPE: nucleic acid  
; STRANDEDNESS: single  
; TOPOLOGY: linear  
; MOLECULE TYPE: cDNA

US-09-363-745-6

Query Match 5.4%; Score 53.6; DB 3; Length 1997;  
Best Local Similarity 62.2%; Pred. No. 8.7e-05;  
Matches 102; Conservative 0; Mismatches 59; Indels 3; Gaps 1;

QY 769 CTCTCCCGAGTGGGCTCTCTCCGCAAAAAGGCTACCGAGCGGAGCTGGAAACCCCA 828  
DB 226 CGTCATCGGTGGGTGTTCTGTGGGAAAAGGCTACCGAGAAACGGACTCCGTGGTC-- 283  
QY 829 GTTTTTCATCATCAACCAACTCAAGGGTTTCGGTCACCTCAGATCAAGAGCTTCGAAA 888

DB 284 -AGTCGGTGACAAACCAAGCCAAAGGTGTGGTGTGACCAACACCTCTCAGCTTGGATT 342  
QY 889 CCGGCTGTGGGATGTGGCCGACTTCGTGAAGCCACCTCAGGTGG 932  
DB 343 CCGGATCTGGGAGCTGGCGGACTATGTGATTCAGCTCAGGAGG 386

## RESULT 12

US-09-949-016-15290  
; Sequence 15290, Application US/09949016  
; Patent No. 6812339  
; GENERAL INFORMATION:  
; APPLICANT: VENTER, J. Craig et al.  
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED  
; WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF  
; FILE REFERENCE: CL001307  
; CURRENT APPLICATION NUMBER: US/09/949,016  
; CURRENT FILING DATE: 2000-04-14  
; PRIOR APPLICATION NUMBER: 60/241,755  
; PRIOR FILING DATE: 2000-10-20  
; PRIOR APPLICATION NUMBER: 60/237,768  
; PRIOR FILING DATE: 2000-10-03  
; PRIOR APPLICATION NUMBER: 60/231,498  
; PRIOR FILING DATE: 2000-09-08  
; NUMBER OF SEQ ID NOS: 207012  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 15290  
; LENGTH: 27600  
; TYPE: DNA  
; ORGANISM: Human  
; FEATURE:  
; NAME/KEY: misc feature  
; LOCATION: (1)..(27600)  
; OTHER INFORMATION: n = A,T,C or G  
US-09-949-016-15290

Query Match 5.0%; Score 49.8; DB 4; Length 27600;  
Best Local Similarity 59.5%; Pred. No. 0.003;  
Matches 103; Conservative 0; Mismatches 67; Indels 3; Gaps 1;

QY 776 AGTGGGCTCTCTCCGCAAAAAGGCTACCGAGCGGAGCTGGAAACCCAGTTTTC 835  
DB 8995 AGTGGGCTGTTTGTGGGAAAAGGCTACCGAGAACTGACTCCGTGGTC---AGCTCC 9051  
QY 836 ATCATCAACCAACTCAAAGGGTTTCCGTCACTCAGATCAAGAGCTTGGAACCCGGCTG 895  
DB 9052 GTTACACCAAGTCAAGGGCGTGGTGTGACCAACACTTCTTAAACTTGGATTCGGATC 9111  
QY 896 TGGGATGTGGCCGACTTCGTGAAGCCACCTCAGGTGGGGCCCTGATGTGCT 948  
DB 9112 TGGGATGTGGCGGATTATGTGATACCAAGTCAAGGTGTGTCTCCCACTGTGTCT 9164

## RESULT 13

US-09-165-264-7  
; Sequence 7, Application US/09165264  
; Patent No. 6197510  
; GENERAL INFORMATION:  
; APPLICANT: Vinayagamorthy, Thuraiayah  
; TITLE OF INVENTION: Multi-Loci Genomic Analysis  
; FILE REFERENCE: 44747  
; CURRENT APPLICATION NUMBER: US/09/165,264  
; CURRENT FILING DATE: 1998-10-01  
; NUMBER OF SEQ ID NOS: 14  
; SOFTWARE: Patent In Ver. 2.1  
; SEQ ID NO 7  
; LENGTH: 320  
; TYPE: DNA  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Description of Artificial Sequence: Primer sequence  
US-09-165-264-7

```

Query Match          4.9%; Score 48.6; DB 3; Length 320;
Best Local Similarity 48.1%; Pred. No.0.001;
Matches 138; Conservative 0; Mismatches 149; Indels 0; Gaps 0;

QY 53 GGGGCTACGACAGGCTGGGGCTCTTCGGATTATAGACGGCAAGCTATGTCATGACCAGG 112
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 33 GGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGG 92
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
QY 113 AACTGTGGGGTGGGGCCCTTCGACAGGCTGCTGCAGTCTTTGGGATCGTGTCTATGTGTA 172
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 93 GGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGG 152
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
QY 173 GGTATAGAGAGAAGACTTTTGGCCACGCTGAGAGGGGCAGGGAAAGAGTGGGGGGTGGG 232
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 153 GGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGG 212
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
QY 233 GCTTGTCTCTGCTGGGTTGAGTTGAGGGTGGGCTGTTTAGGGGCTGGAGTGGGAAGGGG 292
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 213 GGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGG 272
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
QY 293 GCAGATTGGGACGGGGTTGGGGAGAGCTAGGCGCATACAGACAGGAG 339
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 273 GGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGG 319
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||

RESULT 14
US-09-128-155-16/c
; Sequence 16, Application US/09128155
; Patent No. 6117654
; GENERAL INFORMATION:
; APPLICANT: Pan, Yang
; TITLE OF INVENTION: NOVEL MOLECULES OF TANGO-77 RELATED PROTEIN FAMILY
; TITLE OF INVENTION: AND USES THEREOF
; FILE REFERENCE: 09404/052001
; CURRENT APPLICATION NUMBER: US/09/128,155
; CURRENT FILING DATE: 1998-08-03
; EARLIER APPLICATION NUMBER: US 60/091,650
; EARLIER FILING DATE: 1998-07-02
; EARLIER APPLICATION NUMBER: US 60/054,646
; EARLIER FILING DATE: 1997-08-04
; NUMBER OF SEQ ID NOS: 18
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 16
; LENGTH: 152331
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (1)...(152331)
; OTHER INFORMATION: n = A,T,C or G
US-09-128-155-16

```

[illegible]

```

Db      21972  GGTGGGGGGCCCGGGGGGGCCCGGGGGGGGGG 21932

RESULT 15
US-09-072-596-323/c
; Sequence 323, Application US/09072596
; Patent No. 6458366
; GENERAL INFORMATION:
; APPLICANT: Reed, Steven G.
; APPLICANT: Steiky, Yasir A.W.
; APPLICANT: Dillon, Davin C.
; APPLICANT: Campos-Neco, Antonia
; APPLICANT: Houghton, Raymond
; APPLICANT: Vedvick, Thomas S.
; APPLICANT: Twardzik, Daniel R.
; APPLICANT: Lodes, Michael J.
; APPLICANT: Hendrickson, Ronald C.
; TITLE OF INVENTION: COMPOUNDS AND METHODS FOR DIAGNOSIS OF
; .NUMBER OF SEQUENCES: 350
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: SEED and BERRY LLP
; STREET: 6300 Columbia Center, 701 Fifth Avenue
; CITY: Seattle
; STATE: Washington
; COUNTRY: USA
; ZIP: 98104-7092
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/072,596
; FILING DATE: 05-MAY-1998
; CLASSIFICATION:
; ATTORNEY/AGENT INFORMATION:
; NAME: Maki, David J.
; REGISTRATION NUMBER: 31,392
; REFERENCE/DOCKET NUMBER: 210121.417C9
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (206) 622-4900
; TELEFAX: (206) 682-6031
; INFORMATION FOR SEQ ID NO: 323:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 1166 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: Genomic DNA
; US-09-072-596-323
TUBERCULOSIS

```

	Query Match	4.8%;	Score 47.6;	DB 3;	Length 1166;
	Best Local Similarity	30.7%;	Pred. No. 0.0032;		
	Matches	77;	Conservative 52;	Mismatches 122;	Indels 0; Gaps 0;
Qy	91	GGAGAAAGTATGTGATGACACAGAACTGGCGGCTGGCGCCCTGCAGAGGCTGCTGCAGTT	150		
Db	1036	GGAGGAGKAGMKGNMNTYGGNGMAGGYYRAGWYNGRKNMGKAGMGSMGRACGTWGWG	977		
Qy	151	TGGGATCGTGTCTATGTGTAGGCTAAGAGAAAGACTTTTGCCCAAGGCTTGAGGGGC	210		
Db	976	AGNACAGAGAGNNTGGNWKATAGTNGRGMGNTGKMKRKNRWGAGMGAGATRAGW	917		
Qy	211	AAGCGGAAGAGGTGGGGGGTGGCGGCTTGCTCTGCTGGGCTTGAAGTTCAGGGGTTGGGCTGT	270		
Db	916	GAGAGWGGATAGAGGGWGGWNGTSMKNTGGGGGAGWAGWTGMMNTGGGAGKNGMTG	857		
Qy	271	TTAGGGGCTGGAGTGGAGCGGGGGCAGATTGGACCGGGCTTGGGAGAGCTAGGGCGATACA	330		
Db	856	MTRRRQYKNGANGAGRMKAGKXNNGAGGGGNRMKGGANGMKRGGWKAAGAGAGAKMGG	797		
Qy	331	AGACAGGAGAG	341		

Db        ::: ||||: 796 MKMAGTGAGAR 786

Search completed: March 21, 2005, 15:47:15  
Job time : 172.991 secs

**This Page Blank (uspto)**

GenCore version 5.1.6  
Copyright (c) 1993 - 2005 CompuGen Ltd.

OM nucleic - nucleic search, using sw model

Run on: March 21, 2005, 14:19:42 ; Search time 1610.64 Seconds  
(without alignments)  
9953.840 Million cell updates/sec

Title: US-09-820-095B-1

Perfect score: 2693

Sequence: 1 ttgctgactcatgtgccgc.....aaaaaaaaaaaaaaaaa 2693

Scoring table: IDENTITY NUC

Gapop 10\_0 , Gapext 1.0

Searched: 5544816 seqs, 2976611598 residues

Total number of hits satisfying chosen parameters: 11089632

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Published Applications NA.\*

- 1: /cgn2\_6/ptodata/1/pubpna/US07\_PUBCOMB.seq.\*
- 2: /cgn2\_6/ptodata/1/pubpna/PCT\_NEW\_PUB.seq.\*
- 3: /cgn2\_6/ptodata/1/pubpna/US06\_PUBCOMB.seq.\*
- 4: /cgn2\_6/ptodata/1/pubpna/US06\_PUBCOMB.seq.\*
- 5: /cgn2\_6/ptodata/1/pubpna/US07\_NEW\_PUB.seq.\*
- 6: /cgn2\_6/ptodata/1/pubpna/PCTUS\_PUBCOMB.seq.\*
- 7: /cgn2\_6/ptodata/1/pubpna/US08\_NEW\_PUB.seq.\*
- 8: /cgn2\_6/ptodata/1/pubpna/US09\_PUBCOMB.seq.\*
- 9: /cgn2\_6/ptodata/1/pubpna/US09A\_PUBCOMB.seq.\*
- 10: /cgn2\_6/ptodata/1/pubpna/US09B\_PUBCOMB.seq.\*
- 11: /cgn2\_6/ptodata/1/pubpna/US09C\_PUBCOMB.seq.\*
- 12: /cgn2\_6/ptodata/1/pubpna/US09\_NEW\_PUB.seq.\*
- 13: /cgn2\_6/ptodata/1/pubpna/US10A\_PUBCOMB.seq.\*
- 14: /cgn2\_6/ptodata/1/pubpna/US10B\_PUBCOMB.seq.\*
- 15: /cgn2\_6/ptodata/1/pubpna/US10C\_PUBCOMB.seq.\*
- 16: /cgn2\_6/ptodata/1/pubpna/US10D\_PUBCOMB.seq.\*
- 17: /cgn2\_6/ptodata/1/pubpna/US10E\_PUBCOMB.seq.\*
- 18: /cgn2\_6/ptodata/1/pubpna/US10F\_PUBCOMB.seq.\*
- 19: /cgn2\_6/ptodata/1/pubpna/US10\_NEW\_PUB.seq.\*
- 20: /cgn2\_6/ptodata/1/pubpna/US11\_NEW\_PUB.seq.\*
- 21: /cgn2\_6/ptodata/1/pubpna/US60\_NEW\_PUB.seq.\*
- 22: /cgn2\_6/ptodata/1/pubpna/US60\_PUBCOMB.seq.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

#### SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	2693	100.0	2693	10	US-09-820-095-1
2	1592.6	59.1	16449	10	US-09-820-095-3
C 3	567.4	21.1	569	9	US-09-864-761-9190
C 4	377	14.0	577	9	US-09-864-761-9695
5	285.6	10.6	2299	19	US-10-895-225A-54
6	243.6	9.0	1978	17	US-10-172-118-786
7	243.6	9.0	1978	17	US-10-342-887-786
8	243.6	9.0	1978	18	US-10-370-715B-571
9	239.2	8.9	1389	9	US-09-833-082-1
10	239.2	8.9	1750	17	US-10-305-720-831
11	237.6	8.8	1269	18	US-10-128-558-20
					Sequence 1, Appli
					Sequence 3, Appli
					Sequence 9190, Ap
					Sequence 9695, Ap
					Sequence 54, Appli
					Sequence 786, App
					Sequence 786, App
					Sequence 571, App
					Sequence 1, Appli
					Sequence 831, App
					Sequence 20, Appli

12	237.2	8.8	1167	17	US-10-386-414-18	Sequence 18, Appl
13	237.2	8.8	2048	17	US-10-386-414-16	Sequence 16, Appl
14	237.2	8.8	2048	17	US-10-240-425-1468	Sequence 1468, Ap
15	237.2	8.8	2048	19	US-10-482-029-256	Sequence 256, App
16	236.6	8.8	2048	17	US-10-187-659A-4	Sequence 4, Appli
17	233.4	8.7	2633	9	US-09-969-347-225	Sequence 225, App
18	233.4	8.7	2643	17	US-10-352-684A-53	Sequence 53, App
19	233.4	8.7	2643	17	US-10-641-643-897	Sequence 897, App
20	233.4	8.7	2643	18	US-10-283-975A-285	Sequence 285, App
21	226	8.4	1956	9	US-09-864-864-331	Sequence 331, App
22	226	8.4	1986	18	US-10-283-975A-239	Sequence 239, App
23	215.4	8.0	1931	17	US-10-452-879-3	Sequence 3, Appli
24	213.2	7.9	1380	15	US-10-345-680-12	Sequence 12, Appli
25	213.2	7.9	1389	15	US-10-345-680-10	Sequence 10, Appli
26	212.6	7.9	1639	11	US-09-764-875-307	Sequence 307, App
27	181.4	6.7	1616	17	US-10-336-472-53	Sequence 53, Appli
28	164	6.1	1583	17	US-10-336-472-51	Sequence 51, Appli
C 29	163	6.1	163	9	US-09-864-761-26100	Sequence 26100, A
C 30	157.4	5.8	159	9	US-09-864-761-25779	Sequence 25779, A
C 31	156.4	5.8	517	16	US-10-029-386-646	Sequence 646, App
32	156	5.8	647	13	US-10-027-632-158909	Sequence 158909,
33	156	5.8	647	17	US-10-027-632-158909	Sequence 158909,
C 34	151	5.6	151	16	US-10-029-386-14351	Sequence 14351, A
35	148.4	5.5	565	9	US-09-864-761-9732	Sequence 9732, Ap
36	148	5.5	185	9	US-09-864-761-26122	Sequence 26122, A
C 37	146.4	5.4	1926	16	US-10-133-013-149	Sequence 149, App
C 38	144.6	5.4	440	9	US-09-864-761-2179	Sequence 2179, Ap
C 39	144.6	5.4	576	9	US-09-864-761-9249	Sequence 9249, Ap
40	140.4	5.2	1422	17	US-10-051-874-41	Sequence 41, Appli
41	131.2	4.9	561	17	US-10-641-643-370	Sequence 370, App
42	129.6	4.8	958	19	US-10-895-225A-38	Sequence 38, Appli
43	125.8	4.7	941	9	US-09-764-847-250	Sequence 250, App
44	125.8	4.7	941	11	US-09-764-875-583	Sequence 583, App
45	125.8	4.7	941	14	US-10-092-154-250	Sequence 250, App

#### ALIGNMENTS

##### RESULT 1

US-09-820-095-1  
; Sequence 1, Application US/09820095  
; Publication No. US2003023368A1  
; GENERAL INFORMATION:  
; APPLICANT: WEI, Ming-Hui et al  
; TITLE OF INVENTION: ISOLATED HUMAN G-PROTEIN COUPLED  
; TITLE OF INVENTION: RECEPTORS, NUCLEIC ACID MOLECULES ENCODING HUMAN GPCR  
; TITLE OF INVENTION: PROTEINS, AND USES THEREOF  
; FILE REFERENCE: CL001202  
; CURRENT APPLICATION NUMBER: US/09/820,095  
; CURRENT FILING DATE: 2001-03-29  
; NUMBER OF SEQ ID NOS: 4  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 1  
; LENGTH: 2693  
; TYPE: DNA  
; ORGANISM: Human  
; US-09-820-095-1

Query Match 100.0%; Score 2693; DB 10; Length 2693;  
Best Local Similarity 100.0%; Pred. No. 0;  
Matches 2693; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY	1	TTGCTGACTCATGTGCCGACGTAGCAGAGCTGGCAGCATGGCTCCCGAGGGGTAC	60
Db	1	TTGCTGACTCATGTGCCGACGTAGCAGAGCTGGCAGCATGGCTCCCGAGGGGTAC	60
QY	61	GACAGGCTGGGGCTTCTGGATTATAAGACGAGAGAGTGGGCTCTCTCGCCAAAAAGG	120
Db	61	GACAGGCTGGGGCTTCTGGATTATAAGACGAGAGAGTGGGCTCTCTCGCCAAAAAGG	120
QY	121	CTACACGAGCGGACCTCGAATCCCGAGTTTTCATCATCAACAACTCAAGGGTTTC	180

121 CTACAGGAGCGGACCTGGAAACCCCAAGTTTCCATCATCAACAACTCAAAAGGGGTTTC 180  
181 CGTCACTCAGATCAAGAGCTTGGAAACCGGCTGTGGGATGTGGCGACTTCGTGAAGCC 240  
181 CGTCACTCAGATCAAGAGCTTGGAAACCGGCTGTGGGATGTGGCGACTTCGTGAAGCC 240  
241 ACCTCAGGAGAGAAAGTGTCTTCTTGTGTGACCAACTTCTTGTGACGCCAGCCCAAGT 300  
241 ACCTCAGGAGAGAAAGTGTCTTCTTGTGTGACCAACTTCTTGTGACGCCAGCCCAAGT 300  
301 TCAGGACAGATGCCAGAGAACCCGTCGTCTCCACATGCGCTAACTGCTGGGTGACAGAGA 360  
301 TCAGGACAGATGCCAGAGAACCCGTCGTCTCCACATGCGCTAACTGCTGGGTGACAGAGA 360  
361 CTGCCCCGAAGGGAGGGAGGACACACAGCCGCTGTAAGGTAAGGTAAGGTAAGGTAAGG 420  
361 CTGCCCCGAAGGGAGGGAGGACACACAGCCGCTGTAAGGTAAGGTAAGGTAAGGTAAGG 420  
421 GTTCAATGGGACCCACAGGACCTGTGAGATCTGGAGTTGGTCCCAAGTGGAGAGTGGCGT 480  
421 GTTCAATGGGACCCACAGGACCTGTGAGATCTGGAGTTGGTCCCAAGTGGAGAGTGGCGT 480  
481 TGTGCCCTCGAGGCCCTCTGTCGCCAGCCGACCACTTCACTGTTTCAATAAACAAC 540  
481 TGTGCCCTCGAGGCCCTCTGTCGCCAGCCGACCACTTCACTGTTTCAATAAACAAC 540  
541 AGTCACCTTCAGCAAGTTCAACTTCTTAAGTCCAACTGCTGGAGACCTGGGACCCCAAC 600  
541 AGTCACCTTCAGCAAGTTCAACTTCTTAAGTCCAACTGCTGGAGACCTGGGACCCCAAC 600  
601 CTATTTAAAGCACTGCGCTATGAACCAAACTCAGCCCCCTACTGTCCCGTGTTCGGCAT 660  
601 CTATTTAAAGCACTGCGCTATGAACCAAACTCAGCCCCCTACTGTCCCGTGTTCGGCAT 660  
661 TGGGACCTGTGGCCCAAGCTGGAGGACCTTGAAGACCTTGGAGACCTGGGAGTGGCTC 720  
661 TGGGACCTGTGGCCCAAGCTGGAGGACCTTGAAGACCTTGGAGACCTGGGAGTGGCTC 720  
721 TGTAGGCATCAGAGTTCACTGGGATGTGACCTGGACACCGGGGACTCTGGGCTGTGGCC 780  
721 TGTAGGCATCAGAGTTCACTGGGATGTGACCTGGACACCGGGGACTCTGGGCTGTGGCC 780  
781 TCACTACTCTTCCAGCTCAGGAGAGAGCTACAACTTCAGGACAGCCACTCACTGGTG 840  
781 TCACTACTCTTCCAGCTCAGGAGAGAGCTACAACTTCAGGACAGCCACTCACTGGTG 840  
841 GGAGCAACCGGCTGTGGAGCCCGCACCTCTCAAGCTCTATGAAATCCGCTTCGACAT 900  
841 GGAGCAACCGGCTGTGGAGCCCGCACCTCTCAAGCTCTATGAAATCCGCTTCGACAT 900  
901 CCTCGTCAACCGGCGAGGAGGAGTTCCGGGCTCATCCCAAGCGCTCACACTGGGCAC 960  
901 CCTCGTCAACCGGCGAGGAGGAGTTCCGGGCTCATCCCAAGCGCTCACACTGGGCAC 960  
961 CGGGGAGCTTGGCTGGGCGTGTCACTTTTCTGTGACCTGCTACTGTCTGTATGTGA 1020  
961 CGGGGAGCTTGGCTGGGCGTGTCACTTTTCTGTGACCTGCTACTGTCTGTATGTGA 1020  
1021 TAGAGAGCCATTTCTACTGAGGAGCAAGATATGAGGAGGCAAGGCCCCGAAGCAAC 1080  
1021 TAGAGAGCCATTTCTACTGAGGAGCAAGATATGAGGAGGCAAGGCCCCGAAGCAAC 1080  
1081 CGGCCAACTCTGTGTGAGGAGGCTGGCCCTTGCATCCCAAGCCGACTGGCCGAGTGGCT 1140  
1081 CGGCCAACTCTGTGTGAGGAGGCTGGCCCTTGCATCCCAAGCCGACTGGCCGAGTGGCT 1140  
1141 CAGAGCGAGCTCAGCACTGCAACCGGCCACTGCTGTCTGGAGTCAAGACAGACAC 1200  
1141 CAGAGCGAGCTCAGCACTGCAACCGGCCACTGCTGTCTGGAGTCAAGACAGACAC 1200  
1201 AGGATGGCCCTCTCAAGTTCTGACACCCACTTGGCAACCCATTCGGGAGGCTGTAGCC 1260  
1201 AGGATGGCCCTCTCAAGTTCTGACACCCACTTGGCAACCCATTCGGGAGGCTGTAGCC 1260

1261 GTTCCCTGCTGTGAGAGTTGGGGCTGGGAAGGCGCGGGCCCTGCTCGCTGGGGATCTCAA 1320  
1261 GTTCCCTGCTGTGAGAGTTGGGGCTGGGAAGGCGCGGGCCCTGCTCGCTGGGGATCTCAA 1320  
1321 GGATGAGGCCCCAGCATGAGAGATTGGGGGTAGAAATCCACCTTTGAACCCCGAGCAGACA 1380  
1321 GGATGAGGCCCCAGCATGAGAGATTGGGGGTAGAAATCCACCTTTGAACCCCGAGCAGACA 1380  
1381 GTCCCTCCCTGACTCCACCTTGTAGGGTGTCTGCTCAGGAGGCATAGAAATCGGCT 1440  
1381 GTCCCTCCCTGACTCCACCTTGTAGGGTGTCTGCTCAGGAGGCATAGAAATCGGCT 1440  
1441 GTGTTTTGAGAGCGGCGACAGAACCTGACCCGTGGAGACTGGGAGAGCCCGAGCAGCACCT 1500  
1441 GTGTTTTGAGAGCGGCGACAGAACCTGACCCGTGGAGACTGGGAGAGCCCGAGCAGCACCT 1500  
1501 GTATTCAGGGCTCCGACTGTCAGTGGCAGGGCTCTCTGCTCGCTGGGCTGGAGGTC 1560  
1501 GTATTCAGGGCTCCGACTGTCAGTGGCAGGGCTCTCTGCTCGCTGGGCTGGAGGTC 1560  
1561 TCTCTCCAGTGTCTGTCTCCCGAGTGTCTTAGCAGAGGTATGCTTACAGCTGTACAGA 1620  
1561 TCTCTCCAGTGTCTGTCTCCCGAGTGTCTTAGCAGAGGTATGCTTACAGCTGTACAGA 1620  
1621 CAGACCTCTCTGCTGGGCTCTGCGCCCTCTCTCCCGCATCTGCACCCCGCATCATAGT 1680  
1621 CAGACCTCTCTGCTGGGCTCTGCGCCCTCTCTCCCGCATCTGCACCCCGCATCATAGT 1680  
1681 AGAGACCCACCTCCCATCGTCTCCTAGGGATGAGGTAGGCAGATAATCCACCTCCCTATCC 1860  
1681 AGAGACCCACCTCCCATCGTCTCCTAGGGATGAGGTAGGCAGATAATCCACCTCCCTATCC 1860  
1741 GGCAGAAAGAGAGTGTGGGGAGGGGATGTTTTCAGCTTCTCTGCTGTCTGATGCC 1800  
1741 GGCAGAAAGAGAGTGTGGGGAGGGGATGTTTTCAGCTTCTCTGCTGTCTGATGCC 1800  
1801 CCAGGAGAGTCTTAATCTAGGGATGAGGTAGGCAGATAATCCACCTCCCTATCC 1860  
1801 CCAGGAGAGTCTTAATCTAGGGATGAGGTAGGCAGATAATCCACCTCCCTATCC 1860  
1861 CCCAGGAAAGGCGGAGCATGTGTCTTGGGCCCAACCTCTAGTATGAGGACCCGCG 1920  
1861 CCCAGGAAAGGCGGAGCATGTGTCTTGGGCCCAACCTCTAGTATGAGGACCCGCG 1920  
1921 TGCTTTCCAGTGTAGCCCTTTTCCATGAGGCTCTGGGAGAGAGAGAGAGGCGGCGAG 1980  
1921 TGCTTTCCAGTGTAGCCCTTTTCCATGAGGCTCTGGGAGAGAGAGAGAGGCGGCGAG 1980  
1981 GGCTAAGTTGTGATCATTTGGGTTCTTCAGGACCTTCTATATCCCTCTCGGTAACCCCC 2040  
1981 GGCTAAGTTGTGATCATTTGGGTTCTTCAGGACCTTCTATATCCCTCTCGGTAACCCCC 2040  
2041 CAGCCCAACCCCTTGGAAATCTTTCCTCAGGCTTCTGAGAGCCCTGGGGGTGGAGGCT 2100  
2041 CAGCCCAACCCCTTGGAAATCTTTCCTCAGGCTTCTGAGAGCCCTGGGGGTGGAGGCT 2100  
2101 GTGGGAGGCTGTACATCTGAAATTCACATTCAGTCCAAAGTATACCTTAGGAGCTGTCTGG 2160  
2101 GTGGGAGGCTGTACATCTGAAATTCACATTCAGTCCAAAGTATACCTTAGGAGCTGTCTGG 2160  
2161 GCAGTGTCTCAGGAGGCGCTGCTGTGATCCAGGCTGGATGGATGGCTGGAGGAA 2220  
2161 GCAGTGTCTCAGGAGGCGCTGCTGTGATCCAGGCTGGATGGATGGCTGGAGGAA 2220  
2221 TGGTTCCAAACAAACACCGAGATCTCCCTCAGGCTGGCAGGTTTTCAGCTGGAAT 2280  
2221 TGGTTCCAAACAAACACCGAGATCTCCCTCAGGCTGGCAGGTTTTCAGCTGGAAT 2280  
2281 CTCCTCTTGGTCCCGAGGCGGAGGAAATTTCTAAGTGTCCACCCAGGAGGCAAGG 2340  
2281 CTCCTCTTGGTCCCGAGGCGGAGGAAATTTCTAAGTGTCCACCCAGGAGGCAAGG 2340

```
QY 2341 GCTGCTTTCCACTGTGGGTACCTGGTGATCAGGCGAAGCTGTGGAGGGCCAGGGGTGGGG 2400
DB 2341 GCTGCTTTCCACTGTGGGTACCTGGTGATCAGGCGAAGCTGTGGAGGGCCAGGGGTGGGG 2400
QY 2401 CTGAGACTGGGCTGACATCTAGAAATCACCTGCCACCTGGAGCCTCAGTAAATGCCTGGG 2460
DB 2401 CTGAGACTGGGCTGACATCTAGAAATCACCTGCCACCTGGAGCCTCAGTAAATGCCTGGG 2460
QY 2461 GTCCCTGTGCTCTCAATCTCCAGAGCCATGTCTCAATGGGGAGGTGGGCTCTGAAGGGGG 2520
DB 2461 GTCCCTGTGCTCTCAATCTCCAGAGCCATGTCTCAATGGGGAGGTGGGCTCTGAAGGGGG 2520
QY 2521 AAGGTGGAGAGCAGGGCCCTCAGGCTGGGGTATCCAGAGGGGGCAGTGTGACCTGAT 2580
DB 2521 AAGGTGGAGAGCAGGGCCCTCAGGCTGGGGTATCCAGAGGGGGCAGTGTGACCTGAT 2580
QY 2581 TCTCCTTTGGGGCCAGAGGAAGCTGATGTCATGGCTGGCAAGAGTCAACGGGTAAAGCCA 2640
DB 2581 TCTCCTTTGGGGCCAGAGGAAGCTGATGTCATGGCTGGCAAGAGTCAACGGGTAAAGCCA 2640
QY 2641 GCAAGGCCACCAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA 2693
DB 2641 GCAAGGCCACCAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA 2693
```

## RESULT 2

```
US-09-820-095-3
; Sequence 3, Application US/09820095
; Publication No. US2003023368A1
; GENERAL INFORMATION:
; APPLICANT: WEI, Ming-Hui et al
; TITLE OF INVENTION: ISOLATED HUMAN G-PROTEIN COUPLED
; TITLE OF INVENTION: RECEPTORS, NUCLEIC ACID MOLECULES ENCODING HUMAN GPCR
; TITLE OF INVENTION: PROTEINS, AND USES THEREOF
; FILE REFERENCE: CL001202
; CURRENT APPLICATION NUMBER: US/09/820, 095
; CURRENT FILING DATE: 2001-03-29
; NUMBER OF SEQ ID NOS: 4
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 3
; LENGTH: 16449
; TYPE: DNA
; ORGANISM: Human
US-09-820-095-3
```

```
Query Match 59.1%; Score 1592.6; DB 10; Length 16449;
Best Local Similarity 99.7%; Pred. No. 0;
Matches 1595; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

QY 1053 ATGAGGAGGCCAAGGCCCGGAAAGCAACCGCCAACTCTGTGTGGAGGGAGCTGGCCCTTG 1112
DB 13246 ATCTGAGGCCAAGGCCCGGAAAGCAACCGCCAACTCTGTGTGGAGGGAGCTGGCCCTTG 13305
QY 1113 CATCCCAAGCCCACTGGCGAGTGTCTCAGACGAGTCTCAGCACTGCAACCCACCGGCCA 1172
DB 13306 CATCCCAAGCCCACTGGCGAGTGTCTCAGACGAGTCTCAGCACTGCAACCCACCGGCCA 13365
QY 1173 CTGCTCTGGAGTCTCAGACACACACACAGGATGGCCCTGTCCAGTCTTGACACCCACT 1232
DB 13366 CTGCTCTGGAGTCTCAGACACACACACAGGATGGCCCTGTCCAGTCTTGACACCCACT 13425
QY 1233 TGCACCAACCAATTCGGGAGCTGTAGCCGTTCCCTGTCTGTGTGAGAGTTGGGGCTGGGA 1292
DB 13426 TGCACCAACCAATTCGGGAGCTGTAGCCGTTCCCTGTCTGTGTGAGAGTTGGGGCTGGGA 13485
QY 1293 AGGCGGGGGCTGCTGGGGATCTCAAGATGAGGCCCCAGCATGAGAGATTGGGGGTA 1352
DB 13486 AGGCGGGGGCTGCTGGGGATCTCAAGATGAGGCCCCAGCATGAGAGATTGGGGGTA 13545
QY 1353 GAATTCACCCCTTGAACCCACGACAGACAGTCCCTCCCTGACTCCCACTTGTAGGGTG 1412
DB 13546 GAATTCACCCCTTGAACCCACGACAGACAGTCCCTCCCTGACTCCCACTTGTAGGGTG 13605
```

```
QY 1413 CTGCTCTCAGGAGCCATAGAACTCGGCTGTGTTTGGAGCGGCGACAGAACTGACCCGT 1472
DB 13606 CTGCTCTCAGGAGCCATAGAACTCGGCTGTGTTTGGAGCGGCGACAGAACTGACCCGT 13665
QY 1473 GGAGACTGGGAGAGCCCGCAGCAGCAGCCTCTATTGACAGGCTCCGACTGCAATGTGGCAGGG 1532
DB 13666 GGAGACTGGGAGAGCCCGCAGCAGCAGCCTCTATTGACAGGCTCCGACTGCAATGTGGCAGGG 13725
QY 1533 GCTCTCTGCTGCGTCTGGGGCTGGAGGTCTCTCTCCAGTGTCTCTGCTCCAGTGTCTCTA 1592
DB 13726 GCTCTCTGCTGCGTCTGGGGCTGGAGGTCTCTCTCCAGTGTCTCTGCTCCAGTGTCTCTA 13785
QY 1593 GCAGAGGTATGCTTACAGCTGTACAGCAGACAGACCTCTCTGCTGCTGGGTCTCTGGCCCTC 1652
DB 13786 GCAGAGGTATGCTTACAGCTGTACAGCAGACAGACCTCTCTGCTGCTGGGTCTCTGGCCCTC 13845
QY 1653 CTCCTCCCATCTGCACCCCATCATAGGTAGAGACCCACCTCCCATCGTCTCTACATGG 1712
DB 13846 CTCCTCCCATCTGCACCCCATCATAGGTAGAGACCCACCTCCCATCGTCTCTACATGG 13905
QY 1713 GCGTGTGACGTGGAGCCAAAGGCAAGGCAAGAGAGAGTGTATGGGGAGGGGAT 1772
DB 13906 GCGTGTGACGTGGAGCCAAAGGCAAGGCAAGAGAGAGTGTATGGGGAGGGGAT 13965
QY 1773 GTTTCAGCTTCTCTGCTGTGTATGCTCCCGCAGGAGAGTCTTATCTAGGGAATGGGGTGG 1832
DB 13966 GTTTCAGCTTCTCTGCTGTGTATGCTCCCGCAGGAGAGTCTTATCTAGGGAATGGGGTGG 14025
QY 1833 AGTAGGCAGATAATCCACCTCCCTATCCCGCAGGCAAGGGCGGAGCATGTCTCTGGGCC 1892
DB 14026 AGTAGGCAGATAATCCACCTCCCTATCCCGCAGGCAAGGGCGGAGCATGTCTCTGGGCC 14085
QY 1893 CACACCTGCTTAGTATTATGAGGACCGGCTGCTTTCCAGTGTGAGCCCTTTTGCATGGAG 1952
DB 14086 CACACCTGCTTAGTATTATGAGGACCGGCTGCTTTCCAGTGTGAGCCCTTTTGCATGGAG 14145
QY 1953 GTCTGGAGAGAGAGCAGAGGGCGGAGGCTAAAGTTGTGTGATCATTTGGTCTCTCAGGA 2012
DB 14146 GTCTGGAGAGAGAGCAGAGGGCGGAGGCTAAAGTTGTGTGATCATTTGGTCTCTCAGGA 14205
QY 2013 CTTTCTATATCTCTCTCGGTAAACCCCGCAGCCCAACCTTGGAACTCTTCTCCAGGC 2072
DB 14206 CTTTCTATATCTCTCTCGGTAAACCCCGCAGCCCAACCTTGGAACTCTTCTCCAGGC 14265
QY 2073 TTCTCTGAGAGCCCTGGGGCTGGAGGCTGTGGAGGCTGTACATCTGAAATTCACCTTCAG 2132
DB 14266 TTCTCTGAGAGCCCTGGGGCTGGAGGCTGTGGAGGCTGTACATCTGAAATTCACCTTCAG 14325
QY 2133 TCCAGTCTATACCTAGGAAGCTGTCTGGGAGCTGTCTCGAGGAGGCCCTTGGCTCTGATC 2192
DB 14326 TCCAGTCTATACCTAGGAAGCTGTCTGGGAGCTGTCTCGAGGAGGCCCTTGGCTCTGATC 14385
QY 2193 CCAGGCTGATGAGGTGGCTGGAGGAATGGTTCCAAACACACACACCGAGATCTCCCTC 2252
DB 14386 CCAGGCTGATGAGGTGGCTGGAGGAATGGTTCCAAACACACACACCGAGATCTCCCTC 14445
QY 2253 AGGCTGGCAGGTTTTCAGCTGGAATTCCTCTTGTGTTCCAGGCGGGGAGGGAAT 2312
DB 14446 AGGCTGGCAGGTTTTCAGCTGGAATTCCTCTTGTGTTCCAGGCGGGGAGGGAAT 14505
QY 2313 CTAAGTGTCCACCCAGGAGGCAAGGGCTGTCTTCCATCTGTGGGTACTGTGTGATCAG 2372
DB 14506 CTAAGTGTCCACCCAGGAGGCAAGGGCTGTCTTCCATCTGTGGGTACTGTGTGATCAG 14565
QY 2373 GGCAGCTGTGAGGGCCAGGGGTGGGCTGAGACTGGGCTGACATCTAGAAATCACCTGC 2432
DB 14566 GGCAGCTGTGAGGGCCAGGGGTGGGCTGAGACTGGGCTGACATCTAGAAATCACCTGC 14625
QY 2433 CACTGTGAGCCTCAGTAAATGCTGGGGTCCCTGCTGCTCTCAATCTCCAGAGCCATG 2492
DB 14626 CACTGTGAGCCTCAGTAAATGCTGGGGTCCCTGCTGCTCTCAATCTCCAGAGCCATG 14685
QY 2493 TCCATGGGAGGTGGGCTCTGAAAGGGCGAAGGTGGGAGAGCAGGGGCCCTTGAGGCCCTGGG 2552
```

14686	Db	TTCATGGGAGGTGGGCTCTGAAGGGCGAAGTGGGAGCAGGCGCCCTGAGCGCTGGG	14745
2553	QY	TATCCAAAGAGGGGACGTGCACCTGATTCTCTTGGGCCCACAGAGGAAGCTGATGTCA	2612
14746	Db	TATCCAAAGAGGGGACGTGCACCTGATTCTCTTGGGCCCACAGAGGAAGCTGATGTCA	14805
2613	QY	GGCTGCACAAGTTCACGGAGTAAAGCCAGCAAGCCACC	2651
14806	Db	GGTGTGACAAAGTTCACGGAGTAAAGCCAGCAAGCCACC	14844

### RESULT 3

US-09-864-761-9190/c  
; Sequence 9190, Application US/09864761  
; Patent No. US20020048763A1  
; GENERAL INFORMATION:  
; APPLICANT: Penn, Sharron G.  
; APPLICANT: Rank, David R.  
; APPLICANT: Hanzel, David K.  
; APPLICANT: Chen, Wensheng  
; TITLE OF INVENTION: HUMAN GENOME-DERIVED SINGLE EXON NUCLEIC ACID PROBES USEFUL FOR  
; TITLE OF INVENTION: GENE EXPRESSION ANALYSIS BY MICROARRAY

FILE REFERENCE: Aeomica-X-1

1  
2  
3  
4  
5  
6  
7  
8  
9  
10  
11  
12  
13  
14  
15  
16  
17  
18  
19  
20  
21  
22  
23  
24  
25  
26  
27  
28  
29  
30  
31  
32  
33  
34  
35  
36  
37  
38  
39  
40  
41  
42  
43  
44  
45  
46  
47  
48  
49  
50  
51  
52  
53  
54  
55  
56  
57  
58  
59  
60  
61  
62  
63  
64  
65  
66  
67  
68  
69  
70  
71  
72  
73  
74  
75  
76  
77  
78  
79  
80  
81  
82  
83  
84  
85  
86  
87  
88  
89  
90  
91  
92  
93  
94  
95  
96  
97  
98  
99  
100  
101  
102  
103  
104  
105  
106  
107  
108  
109  
110  
111  
112  
113  
114  
115  
116  
117  
118  
119  
120  
121  
122  
123  
124  
125  
126  
127  
128  
129  
130  
131  
132  
133  
134  
135  
136  
137  
138  
139  
140  
141  
142  
143  
144  
145  
146  
147  
148  
149  
150  
151  
152  
153  
154  
155  
156  
157  
158  
159  
160  
161  
162  
163  
164  
165  
166  
167  
168  
169  
170  
171  
172  
173  
174  
175  
176  
177  
178  
179  
180  
181  
182  
183  
184  
185  
186  
187  
188  
189  
190  
191  
192  
193  
194  
195  
196  
197  
198  
199  
200  
201  
202  
203  
204  
205  
206  
207  
208  
209  
210  
211  
212  
213  
214  
215  
216  
217  
218  
219  
220  
221  
222  
223  
224  
225  
226  
227  
228  
229  
230  
231  
232  
233  
234  
235  
236  
237  
238  
239  
240  
241  
242  
243  
244  
245  
246  
247  
248  
249  
250  
251  
252  
253  
254  
255  
256  
257  
258  
259  
260  
261  
262  
263  
264  
265  
266  
267  
268  
269  
270  
271  
272  
273  
274  
275  
276  
277  
278  
279  
280  
281  
282  
283  
284  
285  
286  
287  
288  
289  
290  
291  
292  
293  
294  
295  
296  
297  
298  
299  
300  
301  
302  
303  
304  
305  
306  
307  
308  
309  
310  
311  
312  
313  
314  
315  
316  
317  
318  
319  
320  
321  
322  
323  
324  
325  
326  
327  
328  
329  
330  
331  
332  
333  
334  
335  
336  
337  
338  
339  
340  
341  
342  
343  
344  
345  
346  
347  
348  
349  
350  
351  
352  
353  
354  
355  
356  
357  
358  
359  
360  
361  
362  
363  
364  
365  
366  
367  
368  
369  
370  
371  
372  
373  
374  
375  
376  
377  
378  
379  
380  
381  
382  
383  
384  
385  
386  
387  
388  
389  
390  
391  
392  
393  
394  
395  
396  
397  
398  
399  
400  
401  
402  
403  
404  
405  
406  
407  
408  
409  
410  
411  
412  
413  
414  
415  
416  
417  
418  
419  
420  
421  
422  
423  
424  
425  
426  
427  
428  
429  
430  
431  
432  
433  
434  
435  
436  
437  
438  
439  
440  
441  
442  
443  
444  
445  
446  
447  
448  
449  
450  
451  
452  
453  
454  
455  
456  
457  
458  
459  
460  
461  
462  
463  
464  
465  
466  
467  
468  
469  
470  
471  
472  
473  
474  
475  
476  
477  
478  
479  
480  
481  
482  
483  
484  
485  
486  
487  
488  
489  
490  
491  
492  
493  
494  
495  
496  
497  
498  
499  
500  
501  
502  
503  
504  
505  
506  
507  
508  
509  
510  
511  
512  
513  
514  
515  
516  
517  
518  
519  
520  
521  
522  
523  
524  
525  
526  
527  
528  
529  
530  
531  
532  
533  
534  
535  
536  
537  
538  
539  
540  
541  
542  
543  
544  
545  
546  
547  
548  
549  
550  
551  
552  
553  
554  
555  
556  
557  
558  
559  
560  
561  
562  
563  
564  
565  
566  
567  
568  
569  
570  
571  
572  
573  
574  
575  
576  
577  
578  
579  
580  
581  
582  
583  
584  
585  
586  
587  
588  
589  
590  
591  
592  
593  
594  
595  
596  
597  
598  
599  
600  
601  
602  
603  
604  
605  
606  
607  
608  
609  
610  
611  
612  
613  
614  
615  
616  
617  
618  
619  
620  
621  
622  
623  
624  
625  
626  
627  
628  
629  
630  
631  
632  
633  
634  
635  
636  
637  
638  
639  
640  
641  
642  
643  
644  
645  
646  
647  
648  
649  
650  
651  
652  
653  
654  
655  
656  
657  
658  
659  
660  
661  
662  
663  
664  
665  
666  
667  
668  
669  
670  
671  
672  
673  
674  
675  
676  
677  
678  
679  
680  
681  
682  
683  
684  
685  
686  
687  
688  
689  
690  
691  
692  
693  
694  
695  
696  
697  
698  
699  
700  
701  
702  
703  
704  
705  
706  
707  
708  
709  
710  
711  
712  
713  
714  
715  
716  
717  
718  
719  
720  
721  
722  
723  
724  
725  
726  
727  
728  
729  
730  
731  
732  
733  
734  
735  
736  
737  
738  
739  
740  
741  
742  
743  
744  
745  
746  
747  
748  
749  
750  
751  
752  
753  
754  
755  
756  
757  
758  
759  
760  
761  
762  
763  
764  
765  
766  
767  
768  
769  
770  
771  
772  
773  
774  
775  
776  
777  
778  
779  
780  
781  
782  
783  
784  
785  
786  
787  
788  
789  
790  
791  
792  
793  
794  
795  
796  
797  
798  
799  
800  
801  
802  
803  
804  
805  
806  
807  
808  
809  
810  
811  
812  
813  
814  
815  
816  
817  
818  
819  
820  
821  
822  
823  
824  
825  
826  
827  
828  
829  
830  
831  
832  
833  
834  
835  
836  
837  
838  
839  
840  
84

;  
;  
CURRENT FID

: PRIOR APPLICATION NUMBER:

;  
PRIOR FIL

PRIOR APPLICATION NUMBER: US 60/207.4

: PRIOR FILING DATE: 2000-05-26

EXPIRATION DATE: 2000-03-20  
PRIOR APPLICATION NUMBER: IIS 09/632.366

EXPIRATION NUMBER: 05/052,500  
PRIOR FILING DATE: 2000-08-03

```

; OTHER INFORMATION: EXPRESSED IN BONE MARROW, SIGNAL = 2
; OTHER INFORMATION: EXPRESSED IN HEART, SIGNAL = 3
; OTHER INFORMATION: EXPRESSED IN LUNG, SIGNAL = 2.4
; OTHER INFORMATION: EXPRESSED IN FETAL LIVER, SIGNAL = 2.4
; OTHER INFORMATION: EXPRESSED IN ADULT LIVER, SIGNAL = 3.4
US-09-864-761-9190

```

Query Match 21.1%; Score 567.4; DB 9; Length 569;  
Best Local Similarity 99.8%; Pred. No. 1.5e-147;  
Matches 568; Conservative 0; Mismatches 1; Indels 0

1497	QY	ACCTGTAATTGCAAGGGCTCCGACTGCATATGTGCGAAGGGCTCCTCTCGCTCTGGGCTTGGA	1556
569	DB	ACCTGTAATTGCAAGGGCTCCGACTGCATATGTGCGAAGGGCTCCTCTCGCTCTGGGCTTGGA	510
1557	QY	GGTCTCTCTCCAGTGTCTGTGCCAGTGTCTTAGCAGAGGTATGCTTTACCAAGTGTCTC	1616
509	DB	GGTCTCTCTCCAGTGTCTGTGCCAGTGTCTTAGCAGAGGTATGCTTTACCAAGTGTCTC	450
1617	QY	AGCACAAGACCTCTCTGCTGGGTCTCTGGGCTCTCTCCCCATCTGCACACCCCATCAT	1676
449	DB	AGCACAAGACCTCTCTGCTGGGTCTCTGGGCTCTCTCCCCATCTGCACACCCCATCAT	390
1677	QY	AGGTAGAGACCCACCCCTCCCATCGTCTCTACATGCGGCTGTGACGTGAGGCCAAAAG	1736
389	DB	AGGTAGAGACCCACCCCTCCCATCGTCTCTACATGCGGCTGTGACGTGAGGCCAAAAG	330
1737	QY	GCAAAGCAGAAAGAGAGTGTGGGGAGGGGATGTTTTCAGCTTCTCTGGTGTGTGA	1796
329	DB	GCAAAGTACAAAGAGAGTGTGGGGAGGGGATGTTTTCAGCTTCTCTGGTGTGTGA	270
1797	QY	TGCCCCAGGAGAGTCCTAATCTAGGGAAATGGGGTAGGAGTAGGCAGATATCCACCTCCCT	1856
269	DB	TGCCCCAGGAGAGTCCTAATCTAGGGAAATGGGGTAGGAGTAGGCAGATATCCACCTCCCT	210
1857	QY	ATCCCCCAGGCAAGGGCGAGCATGTGTCTTGCGCCACACCTGTAGTTATAGGAC	1916
209	DB	ATCCCCCAGGCAAGGGCGAGCATGTGTCTTGCGCCACACCTGTAGTTATAGGAC	150
1917	QY	CGGCTCTTTCCAGTGTAGCCCTTTTGCATGGAGGTCTGGGAGAGAGCAGAGGGCG	1976
149	DB	CGGCTCTTTCCAGTGTAGCCCTTTTGCATGGAGGTCTGGGAGAGAGCAGAGGGCG	90
1977	QY	GCAGGGCTAAGTTGGTGTATCATTTGGGTCTCTCAGGACCTTCTATATCCCTCTCGGTAA	2036
89	DB	GCAGGGCTAAGTTGGTGTATCATTTGGGTCTCTCAGGACCTTCTATATCCCTCTCGGTAA	30
2037	QY	CCCCCAGCCCAACCCCTTGGAAATCTTTCC	2065
29	DB	CCCCCAGCCCAACCCCTTGGAAATCTTTCC	1

## RESULT 4

```

US-09-864-761-9695/c
; Sequence 9695, Application US/09864761
; Patent No. US20020048763A1
; GENERAL INFORMATION:
; APPLICANT: Penn, Sharon G.
; APPLICANT: Rank, David R.
; APPLICANT: Hanzel, David K.
; APPLICANT: Chen, Wensheng
; TITLE OF INVENTION: HUMAN GENOME-DERIVED SINGLE EXON NUCLEIC ACID PROBES USEFUL FOR
; TITLE OF INVENTION: GENE EXPRESSION ANALYSIS BY MICROARRAY
; FILE REFERENCE: Aecm1ca-x-1
; CURRENT APPLICATION NUMBER: US/09/864,761
; CURRENT FILING DATE: 2001-05-23
; PRIOR APPLICATION NUMBER: US 60/180,312
; PRIOR FILING DATE: 2000-02-04
; PRIOR APPLICATION NUMBER: US 60/207,456
; PRIOR FILING DATE: 2000-05-26
; PRIOR APPLICATION NUMBER: US 09/632,366
; PRIOR FILING DATE: 2000-08-03
; PRIOR APPLICATION NUMBER: GB 24263.6

```



```

; PRIOR FILING DATE: 2000-10-04
; PRIOR APPLICATION NUMBER: US 60/236,359
; PRIOR FILING DATE: 2000-09-27
; PRIOR APPLICATION NUMBER: PCT/US01/00666
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00667
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00664
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00669
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00665
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00668
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00663
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00662
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00661
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00670
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: US 60/234,687
; PRIOR FILING DATE: 2000-09-21
; PRIOR APPLICATION NUMBER: US 09/608,408
; PRIOR FILING DATE: 2000-06-30
; PRIOR APPLICATION NUMBER: US 09/774,203
; PRIOR FILING DATE: 2001-01-29
; NUMBER OF SEQ ID NOS: 49117
; SOFTWARE: Anomax Sequence Listing Engine vers. 1.1
; SEQ ID NO 9695
; LENGTH: 577
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; OTHER INFORMATION: MAP TO AC002472.3
; OTHER INFORMATION: EXPRESSED IN HEART, SIGNAL = 15
; OTHER INFORMATION: EXPRESSED IN ADULT LIVER, SIGNAL = 47
; OTHER INFORMATION: EXPRESSED IN FETAL LIVER, SIGNAL = 17
; OTHER INFORMATION: EXPRESSED IN BRAIN, SIGNAL = 2.2
; OTHER INFORMATION: EXPRESSED IN PLACENTA, SIGNAL = 59
; OTHER INFORMATION: EXPRESSED IN BONE MARROW, SIGNAL = 3.1
; OTHER INFORMATION: EXPRESSED IN LUNG, SIGNAL = 25
; OTHER INFORMATION: EXPRESSED IN HELA, SIGNAL = 22
; US-09-864-761-9695

Query Match 14.0%; Score 377; DB 9; Length 577;
Best Local Similarity 100.0%; Pred. No. 1.9e-94;
Matches 377; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2275 GGAATTCCTCTTGGTCCAGGGCGGGCAGGGAATTCCTAAGTGTCCACCCCGAGGAGG 2334
DB 577 GGAATTCCTCTTGGTCCAGGGCGGGCAGGGAATTCCTAAGTGTCCACCCCGAGGAGG 518
QY 2335 CAAGGGGCTGCTTTCCACTGTGGGTACCTGGTGTATCAGGCAAGCTGTGGAGGCCAGGG 2394
DB 517 CAAGGGGCTGCTTTCCACTGTGGGTACCTGGTGTATCAGGCAAGCTGTGGAGGCCAGGG 458
QY 2395 GTGGGCTGAGACTGGGCTGACATCTAGAAATCACTTGGCCACCTGGAGCCTCAGTAAATG 2454
DB 457 GTGGGCTGAGACTGGGCTGACATCTAGAAATCACTTGGCCACCTGGAGCCTCAGTAAATG 398
QY 2455 CTGGGGTCCCTGCTCCTCAATCTCCAGAGCCATGTCATGGGGAGTGGGCTCTGA 2514
DB 397 CTGGGGTCCCTGCTCCTCAATCTCCAGAGCCATGTCATGGGGAGTGGGCTCTGA 338
QY 2515 AGGGCAAGTGGGAGAGCAGGCGCCCTGAGGCTGGGTATCCAGAGGGGAGTGGGCTCTGA 2574
DB 337 AGGGCAAGTGGGAGAGCAGGCGCCCTGAGGCTGGGTATCCAGAGGGGAGTGGGCTCTGA 278
QY 2575 CCTGATTCTCTTGGGGCCAGAGGAGCTGATGTATGCTGGACAAAGTCAAGAGTA 2634
DB 2575 CCTGATTCTCTTGGGGCCAGAGGAGCTGATGTATGCTGGACAAAGTCAAGAGTA 2634

; 277 CCTGATTCTCTTGGGGCCAGAGGAGCTGATGTATGCTGGACAAAGTCAAGAGTA 218
; 2635 AAGCCAGCAAGCCACC 2651
; 217 AAGCCAGCAAGCCACC 201

RESULT 5
US-10-895-225A-54
; Sequence 54, Application US/10895225A
; Publication No. US20050048587A1
; GENERAL INFORMATION:
; APPLICANT: Rao, Patricia
; APPLICANT: Snyder, Jessica
; APPLICANT: Bagley, Andria
; TITLE OF INVENTION: METHODS FOR IDENTIFYING TOLERANCE
; TITLE OF INVENTION: MODULATORY COMPOUNDS AND USES THEREFOR
; FILE REFERENCE: TLM-025
; CURRENT APPLICATION NUMBER: US/10/895,225A
; CURRENT FILING DATE: 2004-07-19
; PRIOR APPLICATION NUMBER: 60/488,502
; PRIOR FILING DATE: 2003-07-17
; NUMBER OF SEQ ID NOS: 161
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 54
; LENGTH: 2299
; TYPE: DNA
; ORGANISM: Homo sapiens
; US-10-895-225A-54

Query Match 10.6%; Score 285.6; DB 19; Length 2299;
Best Local Similarity 57.9%; Pred. No. 1e-68;
Matches 582; Conservative 0; Mismatches 394; Indels 30; Gaps 3;

QY 98 TGCGTCTCTCTCGCCAAAGAGGCTACAGGAGCGGAGCTGGAAACCCAGATTTTCCATC 157
DB 212 TGGGTGTTCTCATTAAGAGAGTATATCAGACATTCACACTTCCCTGAGAGTGTGTG 271
QY 158 ATCACCAGAACTCAAGGGGTTTCCGTCACTAGATCAAGAGCTTGGAAACCGGCTGTGG 217
DB 272 GTCACCAAGTCAAGGGGTTGCGCTATATCAACACACACGATGCTTGGGAAACGACTCTGG 331
QY 218 GATGTGGCGACTTGTGAGGCACTCAGGAGAGAACTGTTCTTCTTGTGGTGAAC 277
DB 332 GATGTGGCAGACTTGTGATTCCTGCTCAGGGGAGAACGTTTCTTGTGGTGAAC 391
QY 278 TTCTTGTGACGCGCCAGCCCAAGTTTCAAGGCGAGATGCCAGAGCACCGCTCCGTCACATG 337
DB 392 CTGATCGTACTCTTAACCGCGGAGGAGGATCTGTGCTGAGGCTGAAGGCATCCGGAT 451
QY 338 GCTAATCTGTGGTCCAGAGGAGTGCCTCCGAGGAGGAGGAGGACACACAGCCACGCT 397
DB 452 GCGAGTGTTCAGAGGAGACACCGACTGTACGCTGGGAGTCTGTGTAGCGGACACGGA 511
QY 398 GTAAAAAAGGCGAGTGTGT---GGTGTCAATGGAGACCCACAGGACCTGTGAGATCTGG 454
DB 512 CTGAAAACTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 571
QY 455 AGTTGTGTCCTGAGTGGAGAGTGGCGTTGTGCTCCGAGGCGCTGTGCTGGCCAGGCCAG 514
DB 572 GCTTGTGTCCTGAGTGGAGACAAAGTCCATGCCAACCGATCCCTCTGAAGAGGAGGAG 631
QY 515 AACTTCACACTGTTCATCAAAAAACAGTCACCTTCAGCAAGTTCACATTTCTTAAGTCC 574
DB 632 GGTTCACCATTTTCATAAAGAACTTCATTGCTTCCCAAGTTCACTTCTCAAAAGCC 691
QY 575 AATGCTTGGAGACTGGGAGCCCACTATTTTAAGCACTGCGGCTATGAACACCAATTC 634
DB 692 AATGTCTAGAAACAGGCAACAAACATTTCTGAAACCTGTCACTTCAGCTCCA---CC 748
QY 635 AGCCCTACTGTCCGCTGTTCGCAATTTGGGAGCTGTGGCCAAAGCTTGAGGAGGAGCTTC 694
DB 749 AATCTCTACTGCCCATCTTCCGAGCTGGGGTCCATTTGTTGCTGGGAGGAGGCTGACTTC 808
```



;; PRIOR FILING DATE: 2002-06-14  
;; NUMBER OF SEQ ID NOS: 2699  
;; SEQ ID NO 786  
;; LENGTH: 1978  
;; TYPE: DNA  
;; ORGANISM: Homo sapiens  
US-10-342-887-786

Query Match 9.0%; Score 243.6; DB 17; Length 1978;  
Best Local Similarity 58.3%; Pred. No. 4.9e-57;  
Matches 501; Conservative 0; Mismatches 329; Indels 30; Gaps 3;  
QY 98 TGGGCTCTCTCGCCAAAGAGGCTACAGGAGCGGACCTGGAACCCAGTTTCCATC 157  
DB 175 TGGGCTCTCTGATTAAGAGGCTTACCAAGACGTCGACACCTCCCTGCAGAGTGTCTGC 234  
QY 158 ATCAACAACTCAAGGGGTTTCCTGCTCAGATCAAGGAGCTTGGAAACCGGCTGTGG 217  
DB 235 ATCAACAAAGTCAAGGGGCTGCTTCAACACCTCGGATCTTGGGAGCGGATCTGG 294  
QY 218 GATGTGGCCGACTTCGTGAAGCCACTCAGGAGAGAACGTGTTCTTCTTGTGACCAAC 277  
DB 295 GATGTGGCCGACTTCGTGAAGCCACTCAGGAGAGAACGTGTTCTTCTTGTGACCAAC 354  
QY 278 TTCCTTGTGACCGCCAGCCAAAGTTCAAGGCGAGATGCCAGACCCGCTCCCTCCACTG 337  
DB 355 CTGATTCGCGGACTTCGTGAAGCCACTCAGGAGAGAACGTGTTCTTCTTGTGACCAAC 414  
QY 338 GCTAACTGCTGGTTCGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 474  
DB 415 GCGGCGTGTCTCAAGGACAGCGACTGCGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 594  
QY 515 AACTTACACTGCTGGTTCGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 574  
DB 595 GACTTACCACTTTCATTAAGAGAACCAATTCGCTTTCCCAAAATCAACTTCTCCAAAC 654  
QY 575 AATGCTTGGAGACCTGGGAGCCCACTATTTTAAGCACTGCGGCTATGAACCAAAATTC 634  
DB 655 AATGCTTGGAGACCTGGGAGCCCACTATTTTAAGCACTGCGGCTATGAACCAAAATTC 711  
QY 635 AGCCCTTACTGTCCTGGTTCGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 694  
DB 712 AACCACTACTGCGGCTTCGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 771  
QY 755 GACACCGGGAATCTGGGCTGCTCACTACTCTTCCAGCTGCGGAGGAGGAGGAGGAGGAGGAG 809  
DB 832 GATAAGCTGCTCTGAGTGCCACCTCACTATTTCTTTAGCGGCTGAGCAATAAATCTT 891  
QY 810 -----GCTACAACTTTCAGGACAGCCACTCACTGCTGGGAGGAGGAGGAGGAGGAGGAG 850  
DB 892 TCAAAAGTCTGCTCTCGGGTACAACTTCAGATTTGAGATTTACCGAGACGAGCC 951  
QY 851 GGTGTGGAGGCGGACCTGCTCAAGCTCTATGAATCCGCTTTCAGATCTCTCTCTCACC 910  
DB 952 GGGGTGGAGGATTCGACCCCTGATGAAGGCTACGGGATCCGCTTTGACGTGATGTGAAC 1011  
QY 911 GGGCAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 930  
DB 1012 GGCAGGGGTGCTTTCTCTG 1031

## RESULT 8

US-10-370-715B-571  
; Sequence 571, Application US/10370715B  
; Publication No. US20040258678A1  
; GENERAL INFORMATION:  
; Patin Docket Preview  
; APPLICANT: BODARY, SARAH C.  
; APPLICANT: CLARK, HILLARY  
; APPLICANT: BRISDELL, HUNTE  
; APPLICANT: JACKMAN, JANET  
; APPLICANT: SCHOENFELD, JILL R.  
; APPLICANT: WILLIAMS, P. WICKEY  
; APPLICANT: WOOD, WILLIAM I.  
; APPLICANT: WU, THOMAS D.  
; TITLE OF INVENTION: Compositions and Methods for the Treatment of Immune  
; FILE REFERENCE: P1948R1-US  
; CURRENT APPLICATION NUMBER: US/10/370,715B  
; CURRENT FILING DATE: 2003-02-21  
; NUMBER OF SEQ ID NOS: 742  
; SEQ ID NO 571  
; LENGTH: 1978  
; TYPE: DNA  
; ORGANISM: Homo sapien  
US-10-370-715B-571

Query Match 9.0%; Score 243.6; DB 18; Length 1978;  
Best Local Similarity 58.3%; Pred. No. 4.9e-57;  
Matches 501; Conservative 0; Mismatches 329; Indels 30; Gaps 3;  
QY 98 TGGGCTCTCTCGCCAAAGAGGCTACAGGAGCGGACCTGGAACCCAGTTTCCATC 157  
DB 175 TGGGCTCTCTGATTAAGAGGCTTACCAAGACGTCGACACCTCCCTGCAGAGTGTCTGC 234  
QY 158 ATCAACAACTCAAGGGGTTTCCTGCTCAGATCAAGGAGCTTGGAAACCGGCTGTGG 217  
DB 235 ATCAACAAAGTCAAGGGGCTGCTTCAACACCTCGGATCTTGGGAGCGGATCTGG 294  
QY 218 GATGTGGCCGACTTCGTGAAGCCACTCAGGAGAGAACGTGTTCTTCTTGTGACCAAC 277  
DB 295 GATGTGGCCGACTTCGTGAAGCCACTCAGGAGAGAACGTGTTCTTCTTGTGACCAAC 354  
QY 278 TTCCTTGTGACCGCCAGCCAAAGTTCAAGGCGAGATGCCAGACCCGCTCCCTCCACTG 337  
DB 355 CTGATTCGCGGACTTCGTGAAGCCACTCAGGAGAGAACGTGTTCTTCTTGTGACCAAC 414  
QY 338 GCTAACTGCTGGTTCGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 397  
DB 415 GCGGCGTGTCTCAAGGACAGCGACTGCGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 474  
QY 398 GTAAAAACAGGCGGCTGTGTGGTG---TTCAATGGGAGCCACAGGACCTGTGAGATCTGG 454  
DB 475 GTGAAGACCGGCGCTGCTGCGGAGAGGAACTTGGCCAGGGGCACTGTGAGATCTTT 534  
QY 455 AGTTGGTCCCAAGTGGAGAGTGGCTGTGCTCGAGGCGCTGCTGAGGCGGAGGAGGAGGAG 514  
DB 535 GCTGTGGTCCGCTTGGAGACAGCTCCAGGCGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 594  
QY 515 AACTTCACTGTTTCATCAAAACACAGTCACTTTCAGCAAGTTCATCTTCTTAAGTCC 574  
DB 595 GACTTCACTTTTCATTAAGAGAACCAATTCGCTTTCCCAAAATCAACTTCTCCAAAC 654  
QY 575 AATGCTTGGAGACCTGGGAGCCCACTATTTTAAGCACTGCGGCTATGAACCAAAATTC 634  
DB 655 AATGCTTGGAGACCTGGGAGCCCACTATTTTAAGCACTGCGGCTATGAACCAAAATTC 711  
QY 635 AGCCCTTACTGTCCTGGTTCGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 694  
DB 712 AACCACTACTGCGGCTTCGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 771  
QY 695 GAGGACCTGGGCTTCTGCTGGTGGCTCTGTAGGCATCAGATTCATCTGGGATTTGACCTG 754  
DB 772 CAGGATATAGCCCTCGGAGGCTGCTGATGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 831

QY 755 GACACGGGAGCTCTGGCTGCTGGCTCACTACTCTCCAGCTGCAGGAGAGA----- 809  
DB 832 GATAAAGCTGCTCTGAGTGCCACCTCACTATCTTTTAGCGCTGAGCAATAACTT 891  
QY 810 -----GCTACAACTTCAGGACAGCCCACTCACTGTGGGAGCAACCG 850  
DB 892 TCAAAAGTCTGTCTCTCCGCGGTACAACTTCAGATTTTGCCAGATATTTACCGAGAGCGAGCC 951  
QY 851 GGTGTGGAGCGCGACCTCTGCTCAAGCTCTATGGAATCGGTTGACATCTCTGTCACC 910  
DB 952 GGGGTGAGTTCGCGACCTCTGATGAAGCTTAGCGGATCCGCTTTGACGTGATGGTAC 1011  
QY 911 GGGCAGGAGGGAAGTTCCG 930  
DB 1012 GGCAGGGTCTTCTTCTG 1031

## RESULT 9

US-09-833-082-1  
; Sequence 1, Application US/09833082  
; Patent No. US20020151480A1  
; GENERAL INFORMATION:  
; APPLICANT: Chun, Miyoung  
; TITLE OF INVENTION: METHODS AND COMPOSITIONS FOR TREATING  
; TITLE OF INVENTION: CARDIOVASCULAR DISEASE USING 10218  
; FILE REFERENCE: MNI-227  
; CURRENT APPLICATION NUMBER: US/09/833,082  
; CURRENT FILING DATE: 2001-04-10  
; NUMBER OF SEQ ID NOS: 2  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 1  
; LENGTH: 1389  
; TYPE: DNA  
; ORGANISM: Homo Sapiens  
US-09-833-082-1

Query Match 8.9%; Score 239.2; DB 9; Length 1389;  
Best Local Similarity 56.3%; Pred. No. 7.3e-56;  
Matches 529; Conservative 0; Mismatches 378; Indels 33; Gaps 3;  
QY 152 TCATCATCAACAACTCAAGGGTTTCGCTCACTCAGATCAAGAGCTTGGAAACCGG 211  
DB 214 TCCGTTACGACCAAGTCAAGGCGTGTGTGACCAACTTCTAAACTTGGATTCCGG 273  
QY 212 CTGTGGAGTGGCGACTTCTGTGAGCCACTCAGGAGAGAACGTGTTCTTCTGTG 271  
DB 274 ATCTGGAGTGGCGGATTATGTGATCCAGTCAAGGAGAACTTCCCTCTTCTGTCATG 333  
QY 272 ACCAACTTCTTGTGACCGCCAGCCCAAGTTCAAGGCGAGTCCCAAGCAGCCGCTCCGTC 331  
DB 334 ACCAAGTGATCTTCAACATGAAACAGACACAGGCGCTGTGCCCGAGATTCTCAGAT 390  
QY 332 CCAGTGGCTAACTGTGGGTGACAGAGACTGCCCGGAAGGGAGGAGGACACACAGC 391  
DB 391 GCGACCACTGTGTGTAATACAGATCCAGCTGTACTGCGGCTCTGCCGACACCCACAGC 450  
QY 392 CAGGTGTAAACAGGCGCAGTGTGTGTGTTCAATGGACCCACAGGACCTGTGAGATC 451  
DB 451 AACGGAGTCTCAACAGGCGAGGTGCGTAGCTTTCAACAGGCTCCGTCAAGACGTGTGAGGTG 510  
QY 452 TGGAGTGGTGGCCAGTGGAGAGTGGC---GTTGTGCGCTCGAGGCGCCCTGCTGGCCAG 508  
DB 511 GCGGCTGTGTGCGGTGGAGGATGACACACAGTGGCCACACTCTTTTAAAGGCT 570  
QY 509 GCCAGAACTTCACTGTTTCAAAAACACAGTCACTTCAGCAAGTTCAACTTCTCT 568  
DB 571 GCAGAAAATCTTCACTCTTTTGGTTAAGAACAACTCTGATATCCCAAAATTAATTTTCAGC 630  
QY 569 AAGTCCATGCTTGGAGACCTGGGACCCCACTATTTTAAAGCACTGCGCTATGAACA 628  
DB 631 AAGAGGAATATCTTCCCAACATCACCCTACTTACCTCAAGTCGTGCTATGATGCT 690

QY 629 CAATTCAGCCCTACTGTCTCCGTTTCGCAATTGGGGACCTCGTGGCCAAAGCTGGAGGG 688  
DB 691 AAAACAGATCCCTTCTGCCCCATATTCGTCTTGGCAAAATAGTGGAGAACCGAGGACAC 750  
QY 689 ACCTTCGAGGACCTGGCGTTGCTGGTGGCTCTGTAGGATCAGAGTTCACTGGGATTGT 748  
DB 751 AGTTTCCAGGACATGGCCGTGGAGGGAGGCATCATGGGCATCCAGGTCAACTGGGACTGC 810  
QY 749 GACCTGGACACCGGGAGCTCTGGCTGCTGGCTCACTACTCTCTCCAGCTCAGGAGAGA-- 806  
DB 811 AACCTGGACAGAGCGCTTCCCTCTGCTGTGCCAGGTACTCTTCCGCGCTTCGATACA 870  
QY 807 -----AGAGCTACAACTTCAGGACAGCCCACTCACTGGTGG 841  
DB 871 CGGAGCTTGGACCAACGATATCTCTCTGCTACATTTTCAGGTTTGGCCAAAGTACTACAGA 930  
QY 842 GAGCAACCGGGTGTGGAGCGCCGCACTCTGTCTCAAGCTCTATGGAATCGCTTCGACATC 901  
DB 931 GACCTGGTGGCAACGACAGCAGCGCACTGTCTCAAGGCGTATGGCATCCGCTTCGACATC 990  
QY 902 CTCGTACCGGCGAGGAGGAAAGTTCCGGCTCATCCCCAGCGCGTCACTGGGCGACC 961  
DB 991 ATTGTGTTGGGAGAGCGAGGAAATTTGACATCATCCCCACTATGATCAACATCGGCTCT 1050  
QY 962 GGGCGAGCTTGGCTGGGCGTGTGTCACTTTTCTGTGACCTGTCTACTGTGTATGTGGAT 1021  
DB 1051 GGCCTGGCACTGTAGGCACTGGGACCGTGTGTGTGACATCATAGTCTCTTACTGTCATG 1110  
QY 1022 AGAGAAGCCCAATTTCTTACTTGGAGGACAAAGTATGAGGAGG 1061  
DB 1111 AAGAAAAGACTCTACTATCGGGAGAGAAATATAAATATG 1150

## RESULT 10

US-10-305-720-831  
; Sequence 831, Application US/10305720  
; Publication No. US20040010136A1  
; GENERAL INFORMATION:  
; APPLICANT: Au-Young, Janice K.; Seilhamer, Jeffrey J.  
; TITLE OF INVENTION: Composition for the Detection of Signaling Pathway Gene Expression  
; FILE REFERENCE: PA-0002-1 CON  
; CURRENT APPLICATION NUMBER: US/10/305,720  
; CURRENT FILING DATE: 2002-11-26  
; PRIOR APPLICATION NUMBER: 09/016,434  
; PRIOR FILING DATE: 1998-01-30  
; NUMBER OF SEQ ID NOS: 1490  
; SOFTWARE: PERL Program  
; SEQ ID NO 831  
; LENGTH: 1750  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
; FEATURE:  
; NAME/KEY: misc\_feature  
; OTHER INFORMATION: Incyte ID No. US20040010136A1 555697  
US-10-305-720-831

Query Match 8.9%; Score 239.2; DB 17; Length 1750;  
Best Local Similarity 56.3%; Pred. No. 7.9e-56;  
Matches 529; Conservative 0; Mismatches 378; Indels 33; Gaps 3;  
QY 152 TCATCATCAACAACTCAAGGGTTTCCGCTCACTCAGATCAGGAGCTTGGAAACCGG 211  
DB 214 TCCGTTACGACCAAGTCAAGGCGTGTGTGACCAACTTCTTAAACTTGGATTCCGG 273  
QY 212 CTGTGGAGTGGCGACTTGTGAGCCACTCAGGAGAGAACGTGTTCTTCTGTG 271  
DB 274 ATCTGGAGTGGCGGATTATGTGATCCAGTCAAGGAGAACTTCCCTCTTCTGTCATG 333  
QY 272 ACCAACTTCTTGTGACCGCCAGCCCAAGTTCAAGGCGAGTCCCAAGCAGCCGCTCCGTC 331  
DB 334 ACCAAGTGATCTTCACTCATGACACAGGCGCTGTGCCCGAGATTCTCAGAT 390  
QY 332 CCAGTGGCTAACTGTCTGGGTGAGAGGACTGTCCCGGAGGAGGAGGAGGACACACAGC 391

```
Db 391 GCACCACTGTGTAAATCAGATGCCAGTGTACTGCGCGCTCTGCCGACCCACAGC 450
Qy 392 CACGGTGTAAAAACAGCCAGTGTGTGTGTTCATATGGGACCCACAGGACCTGTGTGATC 451
Db 451 AACGGAGTCTCAACAGCGAGTGTGTGTGTTCATATGGGACCCACAGGACCTGTGTGATC 510
Qy 452 TGGAGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 508
Db 511 GCGGCTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 570
Qy 509 GCCAGAACTTCACTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 568
Db 571 GCGAAAACTTCACTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 630
Qy 569 AAGTCAATGCTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 628
Db 631 AAGAGGAAATCTTCCCAACATCACCACCTACTTACTTCACTCAAGTGTGTGTGTGTGT 690
Qy 629 CAATTCAGCCCTTACTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 688
Db 691 AAACAGATCTCTTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 750
Qy 689 ACCTTCAGGACCTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 748
Db 751 AGTTTCAGGACATGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 810
Qy 749 GACCTGGACACCGGGGACTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 806
Db 811 AACCTGGACAGAGCCGCTCTCTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 870
Qy 807 -----AGAGTACAACTTCAGGACACCCACTCACTGTGTGTGTGTGTGTGTGTGTGT 841
Db 871 CGGGAGCTTGTAGCAACACGCTATCTCTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 930
Qy 842 GAGCAACCGGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 901
Db 931 GACCTGGCTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 990
Qy 902 CTCGTCAACCGGGCAGGAGGAGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 961
Db 991 ATGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 1050
Qy 962 GGGGAGCTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 1021
Db 1051 GGGCTGGCACTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 1110
Qy 1022 AGAGAGCCATTTCTACTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 1061
Db 1111 AAGAAAGACTCTACTATCGGGAGAGAAATATAAATATG 1150
```

## RESULT 11

US-10-128-558-20

; Sequence 20, Application US/10128558

; Publication No. US20040219521A1

; GENERAL INFORMATION:

; APPLICANT: Tang, Y. Tom

; APPLICANT: Wang, Zhiwei

; APPLICANT: Weng, Gezhi

; APPLICANT: Boyle, Bryan J

; APPLICANT: Drmanac, Radoje T

; TITLE OF INVENTION: Novel Nucleic Acids and

; TITLE OF INVENTION: Polypeptides

; FILE REFERENCE: 812A

; CURRENT APPLICATION NUMBER: US/10/128,558

; CURRENT FILING DATE: 2002-04-22

; PRIOR APPLICATION NUMBER: US 60/339,453

; PRIOR FILING DATE: 2001-12-11

; PRIOR APPLICATION NUMBER: US 09/488,725

; PRIOR FILING DATE: 2000-01-21

; PRIOR APPLICATION NUMBER: US 09/552,317

; PRIOR FILING DATE: 2000-04-25

```
; PRIOR APPLICATION NUMBER: PCT/US00/35017
; PRIOR FILING DATE: 2000-12-22
; PRIOR APPLICATION NUMBER: US 09/491,404
; PRIOR FILING DATE: 2000-01-25
; PRIOR APPLICATION NUMBER: PCT/US01/02623
; PRIOR FILING DATE: 2001-01-25
; PRIOR APPLICATION NUMBER: US 09/496,914
; PRIOR FILING DATE: 2000-02-03
; PRIOR APPLICATION NUMBER: US 09/560,875
; PRIOR FILING DATE: 2000-04-27
; PRIOR APPLICATION NUMBER: PCT/US01/03800
; PRIOR FILING DATE: 2001-02-05
; PRIOR APPLICATION NUMBER: US 09/515,126
; PRIOR FILING DATE: 2000-02-28
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 412
; SOFTWARE: pt_FL_genes Version 6.0
; SEQ ID NO 20
; LENGTH: 1269
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (1)..(1269)
US-10-128-558-20
```

Query Match 8.8%; Score 237.6; DB 18; Length 1269;

Best Local Similarity 56.2%; Pred. No. 2e-55;

Matches 528; Conservative 0; Mismatches 379; Indels 33; Gaps 3;

```
Qy 152 TCATCATCACAAACTCAAGGGTTTCGTCACATCAGATCAGGAGCTTGGAAACCGG 211
Db 187 TCCGTTACACCAAGTCAAGGGCGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 246
Qy 212 CTGTGGATGTGCGGACTTGTGTGAAGCCACTCAGGGAGAGAACTGTGTCTTCTTGGTG 271
Db 247 ATCTGGATGTGCGGATTTATGTATACAGTCTCAGAGAGAACTCTCTCTTCTGTCTATG 306
Qy 272 ACCAATCTTCTTGTGACGCGCAGCCCAAGTTTCAGGGCAGATGCCAGAGACCCGCTCCGTC 331
Db 307 ACCAAGCTGATCTCACCATGAACACAGACAGGCGCTGTGCCCGGAGATTC---CAGAT 363
Qy 332 CCACTGGCTAACTGTGTGGTTCAGGAGACTGCCCGAAGGGAGGGAGGACACACAGC 391
Db 364 GCGACCACTGTGTAAATCAGATGCCAGTGTACTGTCCGCGCTCTGCCGCGACCCACAGC 423
Qy 392 CACGGTGTAAAAACAGGCCAGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 451
Db 424 AACGGAGTCTCAACAGGCGAGGTGCGTAGCTTTCAACGGGTCTGTCAAGAGCTGTGTGAGTG 483
Qy 452 TGGAGTTGTGCGCCAGTGGAGAGTGGC---GTTGTGCCCTCGAGGGCCCTGTGTGGCCAG 508
Db 484 GCGGCTGTGTGCGCGTGGAGGATGACACACAGTGCACACACCTGCTTTTAAAGGCT 543
Qy 509 GCCAGAACTTCACTGTGTTCATCAAAAACAGTCACTTCAGCAAGTTCAACTTCTCT 568
Db 544 GCAGAAAACCTTCACTCTTTTGTGTAAAGAACAACTCTGTGTATCCCAAAATTTATTTTTCAGC 603
Qy 569 AAGTCCATGTCTTGAGACCTGGGACCCCACTATTTTAAAGCACTGCCGCTATGAACCA 628
Db 604 AAGAGGAATATCTTCCCAACATCACCACTATCTACCTCAAGTCGTGTGATTTATGATGCT 663
Qy 629 CAATTTCAGCCCTTCTGTCTCCGATTTGCCCATTTGGGGAACCTGTGTGCCCAAGGCTGAGGG 688
Db 664 AAAACAGATCCCTTCTGTGCCCATATTCCTCTTGGCAAAATAGTGGAGAACGAGGACAC 723
Qy 689 ACCTTCGAGGACCTGCGGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 748
Db 724 AGTTTCCAGGACATGCGCGTGTGGAGGAGGACATATGGGCATCCAGGTCACTGGGACTGC 783
Qy 749 GACCTGGACACCGGGGACTCTGGCTGTCTCTACTACTCTCTTCCAGTGTGAGGAGA-- 806
Db 784 AACCTGGACAGAGCGCGCTCTCTCTGTGCGCAAGGTACTCTCTTCCGCGCCTCGATACA 843
```

QY 807 -----AGAGTCAAACTTCCAGGAGCCCACTCACTGGTGG 841  
DB 844 CGGGAGCTTGAGCACAACGTATCTCTCGCTACAAATTCAGGTTTGCCAGTACTACAGA 903  
QY 842 GAGCAACCGGGTGTGGAGCCCGCCACCTCGCTCAAGCTCTATGGAATCCGCTTCGACATC 901  
DB 904 GACCTGGCTGGCAACGAGCAGCGCAGCTCATCAAGGCCCTATGGCATCCGCTTCGACATC 963  
QY 902 CTCGTACCGGCGAGGAGGAGTTGCGGGCTCATCCCAAGGCCGTACACTGGGCACC 961  
DB 964 ATTGTGTTTGGGAAGGCGAGGAAATTTGACATCATCTCCCACTATGATCAACATCGGCTCT 1023  
QY 962 GGGGCGAGCTTGGCTGGCGGTGGTCACTTTTCTGTGACCTGCTACTCTGTATGGAAT 1021  
DB 1024 GGCCTGGCACTGCTAGGCAATGGGACCGCTGCTGTGTGACATCATATGCTCTTACTGCATG 1083  
QY 1022 AGAGAAGCCATTTCTTACTTGGAGGACAAAGATATGAGGAG 1061  
DB 1084 AAGAAAAGACTCTACTATCGGAGAGAAATATAAATATG 1123

## RESULT 12

US-10-386-414-18  
; Sequence 18, Application US/10386414  
; Publication No. US20040006016A1  
; GENERAL INFORMATION:  
; APPLICANT: Kapeller-Libermann, Rosana  
; APPLICANT: Robison, Keith E.  
; APPLICANT: White, David  
; APPLICANT: Williamson, Mark W.  
; APPLICANT: Cook, William James  
; APPLICANT: Meyers, Rachel E.  
; APPLICANT: MacBeth, Kyle J.  
; APPLICANT: Carroll, Joseph M.  
; APPLICANT: Chun, Miyoung  
; TITLE OF INVENTION: NOVEL 27875, 22025, 27420, 17906, 16319,  
; FILE OF INVENTION: 55092 AND 10218 MOLECULES AND USES THEREFOR  
; FILE REFERENCE: MPI03-0210NNIM  
; CURRENT APPLICATION NUMBER: US/10/386,414  
; CURRENT FILING DATE: 2003-03-11  
; PRIOR APPLICATION NUMBER: 09/426,282  
; PRIOR FILING DATE: 1999-10-25  
; PRIOR APPLICATION NUMBER: 09/668,266  
; PRIOR FILING DATE: 2000-09-22  
; PRIOR APPLICATION NUMBER: 09/330,970  
; PRIOR FILING DATE: 1999-06-11  
; PRIOR APPLICATION NUMBER: 09/724,599  
; PRIOR FILING DATE: 2000-11-28  
; PRIOR APPLICATION NUMBER: 09/860,193  
; PRIOR FILING DATE: 2001-05-16  
; PRIOR APPLICATION NUMBER: 10/283,023  
; PRIOR FILING DATE: 2002-10-29  
; PRIOR APPLICATION NUMBER: 60/335,044  
; PRIOR FILING DATE: 2001-10-31  
; PRIOR APPLICATION NUMBER: 10/010,943  
; PRIOR FILING DATE: 2001-12-06  
; PRIOR APPLICATION NUMBER: 60/254,037  
; PRIOR FILING DATE: 2000-12-07  
; PRIOR APPLICATION NUMBER: 09/833,082  
; PRIOR FILING DATE: 2001-04-10  
; NUMBER OF SEQ ID NOS: 19  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 18  
; LENGTH: 1167  
; TYPE: DNA  
; ORGANISM: Homo Sapien  
US-10-386-414-18

Query Match 8%; Score 237.2; DB 17; Length 1167;  
Best Local Similarity 56.1%; Pred. No. 2.5e-55;  
Matches 527; Conservative 1; Mismatches 379; Indels 33; Gaps 3;

## RESULT 13

US-10-386-414-16  
; Sequence 16, Application US/10386414  
; Publication No. US20040006016A1  
; GENERAL INFORMATION:  
; APPLICANT: Kapeller-Libermann, Rosana  
; APPLICANT: Robison, Keith E.  
; APPLICANT: White, David

QY 152 TCCATCATCAACCAACTCAAAGGGGTTTCGGTCACTCAGATCAAGAGGCTTCGAAACCGG 211  
DB 187 TCCGTTACGACCAAGGTCAAGGGCGTGGCTGTGACCAACACTTCTAAACCTTGGATTCCGG 246  
QY 212 CTGTGGGATGGCCGCACTTGTGAGGCACTCAGGAGAGAACTGTGTTCTTCTTGGTG 271  
DB 247 ATCTGGGATGTGGCGGATTTATGTGATACCAAGCTCAGGAGGAAATCCCTCTCTGTCATG 306  
QY 272 ACCAACTTCTTGTGACGCCAGCCCAAGTTCAAGGCGAGATCCAGAGCACCCTCCGCTC 331  
DB 307 ACCAAGCTGATCTCACAATGAACACAGACAGAGGCGTGTGCCCCGAGATTCC---CAGAT 363  
QY 332 CCACCTGGCTAACTGTGGGTGACAGGAGTCCGCCGGAAGGGAGAGGAGGACACACAGC 391  
DB 364 GCGACCACTGTGTGTAATCAGATCCAGTCCAGTCTACTGCGGCTCTGCGGCAACCCACAGC 423  
QY 392 CACGGTGTAAACAGGCGCAGTGTGTGTTCAATGGGACCCACAGGACCTGTGATGATC 451  
DB 424 AACGGAGTCTCAACAGGCGAGTGGTGTGCTTTCAACGGGTCTGTCAAGACGTTGTGARGTG 483  
QY 452 TGGAGTTGGTGGCCCAAGTGGAGAGTGGC---GTGTGCGCTCGAGGCCCTGCTGGCCCCAG 508  
DB 484 GCGGCTGTGTCGCGTGGAGGATGACACACAGTGCACACACTGCTTTTTTAAGGCT 543  
QY 509 GCCCAGAACTTCACTGTTCATCAAAACACACAGTCACTTCAGCAAGTTCAACTTCTCT 568  
DB 544 GCAGAAAACCTTCACCTTTTGGTTAAGAACACATCTGGTATCCCAATTTAATTTTCAGC 603  
QY 569 AAGTCATGCTTGGAGACCTGGGACCCCACTATTTTAAGCACTGCGGCTATGACCA 628  
DB 604 AAGAGGAATATCTTTCCCAACATCACTTACCTCAAGTCGTGCAATTTATGATGCT 663  
QY 629 CAATTCAGCCCTACTGTGCCGTGTTCGCACTTGGGACCTCGTGGCCCAAGGCTTGAGGG 688  
DB 664 AAAACAGATCCCTCTGCCCCATATTCGTCTTGGCAAAATAGTGAGNAACGACGACAC 723  
QY 689 ACCTTCGAGGACCTGGCGTGTGCTGGGTGGCTCTGTAGGCATCAGAGTTCACTGGGATGTT 748  
DB 724 AGTTTCCAGGACATGGCCGTGGAGGAGGACATCATGGGCATCCAGTCAACTGGGACTGC 783  
QY 749 GACCTGGACACCGGGACTCTGGCTGGCTCTACTACTCTCCCTCCAGCTGCGAGGAGA-- 806  
DB 784 AACCTGGACAGAGCCGCTCCCTCTGCTTGGCCAGGTACTCTCTCGCGCCCTCGATACA 843  
QY 807 -----AGAGCTACAACTTCAGGACAGCCCACTCACTGGTGG 841  
DB 844 CGGGAGCTTGAGCACAACGTATCTCTCGCTACAAATTCAGGTTTGCCAGTACTACAGA 903  
QY 842 GAGCAACCGGGTGTGGAGGCCCGCACCTGTCTCAAGCTCTATGGAATCCGCTTCGACATC 901  
DB 904 GACCTGGCTGGCAACGAGCAGCGCACGCTCATCAAGGCCCTATGGCATCCGCTTCGACATC 963  
QY 902 CTCGTACCGGCGAGGAGGAGTTGCGGGCTCATCCCAAGGCCGTACACTGGGCACC 961  
DB 964 ATTGTGTTTGGGAAGGCGAGGAAATTTGACATCATCTCCCACTATGATCAACATCGGCTCT 1023  
QY 962 GGGGCGAGCTTGGCTGGCGGTGTGCTACCTTTTCTGTGACCTGCTACTGCTGTATGGAAT 1021  
DB 1024 GGCCTGGCACTGCTAGGCAATGGGACCGTGTGTGTGACATCATATGCTCTTACTGCATG 1083  
QY 1022 AGAGAAGCCATTTCTTACTTGGAGGACAAAGATATGAGGAG 1061  
DB 1084 AAGAAAAGACTCTACTATCGGAGAGAAATATAAATATG 1123

APPLICANT: Williamson, Mark W.  
APPLICANT: Cook, William James  
APPLICANT: Meyers, Rachel E.  
APPLICANT: MacBeth, Kyle J.  
APPLICANT: Carroli, Joseph M.  
APPLICANT: Chun, Miyoung  
TITLE OF INVENTION: NOVEL 27875, 22025, 27420, 17906, 16319,  
TITLE REFERENCE: 55092 AND 10218 MOLECULES AND USES THEREFOR  
CURRENT APPLICATION NUMBER: US/10/386,414  
PRIORITY FILING DATE: 2003-03-11  
PRIORITY FILING DATE: 1999-10-25  
PRIORITY FILING DATE: 1999-10-25  
PRIORITY FILING DATE: 1999-10-25  
PRIORITY FILING DATE: 1999-06-11  
PRIORITY FILING DATE: 1999-06-11  
PRIORITY FILING DATE: 1999-06-11  
PRIORITY FILING DATE: 2000-11-28  
PRIORITY FILING DATE: 2001-05-16  
PRIORITY FILING DATE: 2001-05-16  
PRIORITY FILING DATE: 2002-10-29  
PRIORITY FILING DATE: 2001-10-31  
PRIORITY FILING DATE: 2001-10-31  
PRIORITY FILING DATE: 2001-12-06  
PRIORITY FILING DATE: 2001-12-06  
PRIORITY FILING DATE: 2000-12-07  
PRIORITY FILING DATE: 2001-04-10  
NUMBER OF SEQ ID NOS: 19  
SOFTWARE: FASTSEQ for Windows Version 4.0  
SEQ ID NO 16  
LENGTH: 2048  
TYPE: DNA  
ORGANISM: Homo Sapiens  
US-10-386-414-16

Query Match 8.8%; Score 237.2; DB 17; Length 2048;  
Best Local Similarity 56.1%; Pred. No. 3e-55;  
Matches 527; Conservative 1; Mismatches 379; Indels 33; Gaps 3;

QY 152 TCATCATCAACCAACTCAAGGGGTTCCGTCACTCAGATCAAGAGCTTGGAAACCG 211  
DB 496 TCGTTACGACCAAGGTCAAGGGCGTGTGACCAACTTCTAACTTGGATTCCGG 555  
QY 212 CTGTGGATGTGGCCACTTCGTGAAGCCACTCAGGAGAGAACGTCTTCTTGGTG 271  
DB 556 ATCTGGATGTGGCGGATTATGTGATACCAAGCTCAGGAGGAAACTCCCTCTTGGTCATG 615  
QY 272 ACCAACTTCTGTGACCGCCAGTTCAGGGCAGATGCCAGAGCAGCCGTCGGTC 331  
DB 616 ACCAAGTATCTCAACATGAACAGACAGAGGCGCTGTGCCCGAGATTC---CAGAT 672  
QY 332 CCATCGGTAACTGTGGTTCAGCAGGAGTGTCCCGAAGGGGAGGAGGACACACAGC 391  
DB 673 GCGACCACTGTGTAAATCAGATGCCAGTGTACTGCCGGCTCTGCCGACCCACAGC 732  
QY 392 CACGGTGTAAACAGCCAGTGTGTGTGTGTTCAATGGAGCCACAGGACCTGTGAGATC 451  
DB 733 AACGGAGTCTCAACAGGAGGTCGTGTGTTTCAACGGGTCTGTCAAGAGCTGTGARGTG 792  
QY 452 TGGAGTGTGGTCCAGTGTGAGAGTGGC---GTGTGTCCTCGAGGCGCTGTGGGCCAG 508  
DB 793 GCGGCTGTGGCCGTTGGAGGATGACACAGCTGCCACCACTGCTTTTAAAGGCT 852  
QY 509 GCCAGAACTTCACTGTTCATCAAAACACAGTCACTTTCAGCAAGTTCACATCTCT 568  
DB 853 GCAGAAACTTCACTCTTTTGGTTAGAACAACTCTGTATCCCAAAATTTAATTCAGC 912  
QY 569 AAGTCAATGCTTGGAGAGCTGGGACCCCACTTATTTAAGCACTTGGCGCTATGAACA 628

913 AAAGGAATATCTTCCCAACATCACCACCTACTTACTCAAGTCGTGCATTTATGATGCT 972  
QY 629 CAATTCAGCCCTACTGTCCCGTGTTCGCAATTTGGGAGCCTCGTGCCCAAGGCTGAGGG 688  
DB 973 AAAACAGATCCCTTCTGCCCCATATTTCCGCTTTGGCAAAATAGTGAGAAACGACGACAC 1032  
QY 689 ACCTTCGAGGACCTGGCGTGTGTGGTGGCTCTGTAGGATCAGAGTTCACCTGGGATTTGT 748  
DB 1033 AGTTTCCAGGACATGGCCGCTGGAGGAGGACATCATGGGCATCCAGGTCAACTGGGACTGC 1092  
QY 749 GACCTGGACACCGGGGACTCTGGCTGTGGCTCTCACTACTCTCTTCCAGCTGACAGGAGA-- 806  
DB 1093 AACCTGGACAGAGCGCCCTCTCTGTGGTGGCCAGTACTCTCTTCCGCGCCCTCGATACA 1152  
QY 807 -----AGACTTACAACTTCAGGACACCCACTCACTGGTGG 841  
DB 1153 CGGGAGCTTTGAGCACAAAGTATCTCTGGCTACAATTTCCAGGTTTCCCAAGTACTACAGA 1212  
QY 842 GAGCAACCGGTTGGAGGCCCGCACCTGTCTCAAGCTCTATGGATCCGCTTCGACATC 901  
DB 1213 GACCTGGCTGGCAACGAGCAGCGCACGCTCATCAAGGCCCTATGGCATCCGCTTCGACATC 1272  
QY 902 CTCGTCAACCGGCGAGGAGGAGTTCGGGGCTCATCCCAAGCGCTCACTGCGGACCC 961  
DB 1273 ATTGTGTTGGAGGAGGAGGAAATTTGACATCATCTCCCACTATGATCAACATCGGCTCT 1332  
QY 962 GGGGCGAGCTTGGCTGGCGGTGTGTCACTTTTCTGTGACCTGTCTACTGTGTATGTGGAT 1021  
DB 1333 GGCCTGGCACTCTAGGCATGGCGCGGTGTGTGACATCATAGTCTCTCTACTGATG 1392  
QY 1022 AGAGAAGCCATTTCTACTGGAGGACAAAGTATGAGGAGG 1061  
DB 1393 AAGAAAAGACTCTACTATCTCGGAGAGAAATATATATG 1432

RESULT 14  
US-10-240-425-1468  
; Sequence 1468, Application US/10240425  
; Publication No. US20040033502A1  
; GENERAL INFORMATION:  
; APPLICANT: Williams, Amanda  
; APPLICANT: Boland, Joseph F.  
; APPLICANT: Lord, Reginald V.  
; APPLICANT: Alvarez, Chris  
; APPLICANT: Wetzel, Jon C.  
; APPLICANT: Scherf, Uwe  
; APPLICANT: Vockley, Joseph G.  
; TITLE OF INVENTION: Gene Expression Profiles in Esophageal Tissue  
; FILE REFERENCE: 44921-5026  
; CURRENT APPLICATION NUMBER: US/10/240,425  
; CURRENT FILING DATE: 2002-09-30  
; PRIOR APPLICATION NUMBER: PCT/US01/09847  
; PRIOR FILING DATE: 2001-03-28  
; PRIOR APPLICATION NUMBER: US 60/193,446  
; PRIOR FILING DATE: 2000-03-31  
; NUMBER OF SEQ ID NOS: 1588  
; SOFTWARE: PatentIn Ver. 2.1  
; SEQ ID NO 1468  
; LENGTH: 2048  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
; FEATURE:  
; OTHER INFORMATION: Genbank Accession No. US20040033502A1 U83993  
US-10-240-425-1468

Query Match 8.8%; Score 237.2; DB 17; Length 2048;  
Best Local Similarity 56.1%; Pred. No. 3e-55;  
Matches 527; Conservative 1; Mismatches 379; Indels 33; Gaps 3;

QY 152 TCATCATCAACCAACTCAAGGGGTTTCGCTCACTCAGATCAAGAGCTTGGAAACCG 211  
DB 496 TCGTTACGACCAAGGTCAAGGGCGTGTGACCAACTTCTAACTTGGATTCCGG 555  
QY 212 CTGTGGATGTGGCCACTTCGTGAAGCCACTCAGGAGAGAACGTCTTCTTGGTG 271  
DB 556 ATCTGGATGTGGCGGATTATGTGATACCAAGCTCAGGAGGAAACTCCCTCTTGGTCATG 615  
QY 272 ACCAACTTCTGTGACCGCCAGTTCAGGGCAGATGCCAGAGCAGCCGTCGGTC 331  
DB 616 ACCAAGTATCTCAACATGAACAGACAGAGGCGCTGTGCCCGAGATTC---CAGAT 672  
QY 332 CCATCGGTAACTGTGGTTCAGCAGGAGTGTCCCGAAGGGGAGGAGGACACACAGC 391  
DB 673 GCGACCACTGTGTAAATCAGATGCCAGTGTACTGCCGGCTCTGCCGACCCACAGC 732  
QY 392 CACGGTGTAAACAGCCAGTGTGTGTGTTCAATGGAGCCACAGGACCTGTGAGATC 451  
DB 733 AACGGAGTCTCAACAGGAGGTCGTGTGTTTCAACGGGTCTGTCAAGAGCTGTGARGTG 792  
QY 452 TGGAGTGTGGTCCAGTGTGAGAGTGGC---GTGTGTCCTCGAGGCGCTGTGGGCCAG 508  
DB 793 GCGGCTGTGGCCGTTGGAGGATGACACAGCTGCCACCACTGCTTTTAAAGGCT 852  
QY 509 GCCAGAACTTCACTGTTCATCAAAACACAGTCACTTTCAGCAAGTTCACATCTCT 568  
DB 853 GCAGAAACTTCACTCTTTTGGTTAGAACAACTCTGTATCCCAAAATTTAATTCAGC 912  
QY 569 AAGTCAATGCTTGGAGAGCTGGGACCCCACTTATTTAAGCACTTGGCGCTATGAACA 628

```
QY 212 CTGTGGATGTGGCCGACTTCGTGAAGCCACTCAGGGAGAGAACTGTTCTTTGGTG 271
Db 556 ATCTGGATGTGGCGATTATGTGATACAGCTCAGGAGGAAACTCCCTCTTGGTCATG 615
QY 272 ACCAATCTCTGTGAGCGCAGCCAGTTTCAGGGAGATGCGCAGAGACCGTCCGTC 331
Db 616 ACCAATCTCTGTGAGCGCAGCCAGTTTCAGGGAGATGCGCAGAGACCGTCCGTC 672
QY 332 CCACTGGCTAACTGCTGGGTCCAGGAGACTGCCGGAAGGGAGGGAGGACACACAGC 391
Db 673 GGCACACTGTGTGTAATACAGATGCCAGCTGTACTGCCGGCTCTGCCGGACCCACAGC 732
QY 392 CACGGGTGTAATAACAGCCAGTGTGTGTTCAATGGGACCCACAGGACCTGTGAGATC 451
Db 733 AACGGAGTCTCAACAGGAGGTCGTGTGTTCAACGGGTCTGTCAAGACGTGTGARGTG 792
QY 452 TGGAGTTGGTCCAGTGGAGAGTGGC---GTTGTGCCCTCGAGGCCCTGCTGGCCAG 508
Db 793 GCGGCTGTGTGGGTGAGGATGACACACAGTGCAGTCCAGTCTGTCGGGCTCTGCCGGC 852
QY 509 GCCAGAACTTCACACTGTTTCATCAAAACACAGTCCAGTTCAGGAACTTCACTTCTCT 568
Db 853 GCAGAAACTTCACACTGTTTCATCAAAACACAGTCCAGTTCAGGAACTTCACTTCTCT 912
QY 569 AAGTCCAATGCTTGGAGACCTGGGACCCCACTATTTAAGCACTGCGCTATGAACCA 628
Db 913 AAGAGGAATATCTTCCCAACATCACCACCTACTTACCTCAAGTCGTGCAATTTATGATG 972
QY 629 CAAATCAGCCCTACTGTCCCGTGTTCGCAATGCGGACCTCGTGGCCCAAGCTCGAGGG 688
Db 973 AAAACAGATCCCTCTGCCCCATATTTCCGTCTTGGCAAAATAGTGGAGAACCGCAGCAC 1032
QY 902 CTCGTCAACCGGAGGAGGAGTTTCGGGCTCATCCCCAGCGCGCTCACACTGGGCACC 961
Db 1273 ATTGTGTTTGGGAAGGAGGAGAAATTTGACATCATCCCACTATGATCAACATCGGCTCT 1332
QY 962 GGGGAGCTTGGCTGGGCGTGTCACTTTTCTGTGACCTGTACTGTCTGTATGTTGAT 1021
Db 1333 GGCCTGGCACTGCTAGGCAATGGCGACCGTGTGTGTGACATCATAGTCTCTACTGTCATG 1392
QY 1022 AGAGAGCCATTTCTACTGGAGGACAAAGTATGAGGAG 1061
Db 1393 AAGAAAGACTCTACTATCGGGAGAGAAATATAATATG 1432
```

## RESULT 15

```
US-10-482-029-256
; Sequence 256, Application US/10482029
; Publication No. US20050037445A1
; GENERAL INFORMATION:
; APPLICANT: ODIN medical A/S
; TITLE OF INVENTION: Oncology drug innovation
; FILE REFERENCE: P 573 PC00
; CURRENT APPLICATION NUMBER: US/10/482, 029
; CURRENT FILING DATE: 2003-12-29
; NUMBER OF SEQ ID NOS: 437
; SOFTWARE: PatentIn version 3.1
```

```
; SEQ ID NO 256
; LENGTH: 2048
; TYPE: DNA
; ORGANISM: Homo sapiens
; US-10-482-029-256

Query Match      8.8%; Score 237.2; DB 19; Length 2048;
Best Local Similarity 56.1%; Pred. No. 3e-55;
Matches 527; Conservative 1; Mismatches 379; Indels 33; Gaps 3;

QY 152 TCATCATCACCAACTCAAGGGGTTTCCTCACTCAGATCAAGAGGCTTGGAAACCGG 211
Db 496 TCCGTTACGACCAAGCTCAAGGGCGTGTGTGACCAACACTTTAAATCTTGGATTCGG 555
QY 212 CTGTGGGATGTGGCGACTTTCGTGAAGCCACTCAGGAGAGAACTGTTCTTTGGTG 271
Db 556 ATCTGGGATGTGGCGATTATGTGATACAGCTCAGGAGGAAATCTCCCTCTTCGTCATG 615
QY 272 ACCAACTTCTTTGTGACCGCCAGCCCAAGTTTCAGGCGAGATGCCAGAGCACCCGTCGTC 331
Db 616 ACCAACTGATCTCTCAACCATGAACAGACACAGGCGCTGTGCCCGAGATTCT---CAGAT 672
QY 332 CCACTGGCTAACTGCTGGGTCCAGGAGACTGCCGGAAGGGAGGGAGGACACACAGC 391
Db 673 GCGACCACTGTGTGTAATACAGATGCCAGTCCAGTCTGTCGGGCTCTGCCGGCACCACAGC 732
QY 392 CACGGGTGTAATAACAGCCAGTGTGTGTTCAATGGGACCCACAGGACCTGTGAGATC 451
Db 733 AACGGAGTCTCAACAGGAGGTCGTGTGTTCAACGGGTCTGTCAAGACGTGTGARGTG 792
QY 452 TGGAGTTGGTCCAGTGGAGAGTGGC---GTTGTGCCCTCGAGGCCCTGCTGGCCAG 508
Db 793 GCGGCTGTGTGGGTGAGGATGACACACAGTGCAGTCCAGTCTGTTTAAAGGCT 852
QY 509 GCCAGAACTTCACACTGTTTCATCAAAACACAGTCCAGTTCAGGAACTTCACTTCTCT 568
Db 853 GCAGAAACTTCACACTGTTTCATCAAAACACAGTCCAGTTCAGGAACTTCACTTCTCT 912
QY 569 AAGTCCAATGCTTGGAGACCTGGGACCCCACTATTTAAGCACTGCGCTATGAACCA 628
Db 913 AAGAGGAATATCTTCCCAACATCACCACCTACTTACCTCAAGTCGTGCAATTTATGATG 972
QY 629 CAAATCAGCCCTACTGTCCCGTGTTCGCAATGCGGACCTCGTGGCCCAAGCTCGAGGG 688
Db 973 AAAACAGATCCCTCTGCCCCATATTTCCGTCTTGGCAAAATAGTGGAGAACCGCAGCAC 1032
QY 902 CTCGTCAACCGGAGGAGGAGTTTCGGGCTCATCCCCAGCGCGCTCACACTGGGCACC 961
Db 1273 ATTGTGTTTGGGAAGGAGGAGAAATTTGACATCATCCCACTATGATCAACATCGGCTCT 1332
QY 962 GGGGAGCTTGGCTGGGCGTGTCACTTTTCTGTGACCTGTACTGTCTGTATGTTGAT 1021
Db 1333 GGCCTGGCACTGCTAGGCAATGGCGACCGTGTGTGTGACATCATAGTCTCTACTGTCATG 1392
QY 1022 AGAGAGCCATTTCTACTGGAGGACAAAGTATGAGGAG 1061
Db 1393 AAGAAAGACTCTACTATCGGGAGAGAAATATAATATG 1432
```



Search completed: March 21, 2005, 16:34:20  
Job time : 1628.64 secs

---

**This Page Blank (uspto)**

GenCore version 5.1.6  
Copyright (c) 1993 - 2005 Compugen Ltd.

OM nucleic - nucleic search, using sw model

Run on: March 21, 2005, 14:16:36 ; Search time 460.018 Seconds  
(without alignments)  
9578.952 Million cell updates/sec

Title: US-09-820-095B-1  
Perfect score: 2693  
Sequence: 1 ttgtgactcatgtgccgc.....aaaaaaaaaaaaaaaaaaaaa 2693

Scoring table: IDENTITY NUC  
Gapop 10\_0 , Gapext 1.0

Searched: 1202784 seqs, 818138359 residues

Total number of hits satisfying chosen parameters: 2405568

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 45 summaries

Database : Issued Patents NA.\*  
1: /cgn2\_6/ptodata/1/ina/5A-COMB.seq.\*  
2: /cgn2\_6/ptodata/1/ina/5B-COMB.seq.\*  
3: /cgn2\_6/ptodata/1/ina/6A-COMB.seq.\*  
4: /cgn2\_6/ptodata/1/ina/6B-COMB.seq.\*  
5: /cgn2\_6/ptodata/1/ina/PTUS-COMB.seq.\*  
6: /cgn2\_6/ptodata/1/ina/backfiles1.seq.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	1515.4	56.3	1697	3	US-09-381-681-2
2	1162.4	43.2	1360	3	US-09-191-136-30
3	1155.8	42.9	1293	3	US-09-381-681-1
4	394.4	14.6	396	3	US-09-191-136-28
5	243.6	9.0	1978	4	US-09-949-016-367
6	239.2	8.9	1750	4	US-09-016-434-831
7	239.2	8.9	1762	2	US-08-742-621-2
8	237.6	8.8	1206	3	US-09-191-608-21
9	237.6	8.8	1389	4	US-09-949-016-3548
10	233.4	8.7	2597	4	US-09-949-016-4136
11	233.4	8.7	2643	2	US-08-750-134A-10
12	233.4	8.7	2643	3	US-09-363-745-10
13	233.4	8.7	2643	4	US-09-023-655-897
14	233.4	8.7	2643	4	US-09-949-016-365
15	231.6	8.6	1946	4	US-09-949-016-4138
16	225.4	8.4	1997	2	US-08-750-134A-6
17	225.4	8.4	1997	3	US-09-363-745-6
18	214.4	8.0	1421	3	US-09-191-608-14
19	213.2	7.9	1436	3	US-09-191-608-13
20	206	7.6	1837	2	US-08-750-134A-4
21	206	7.6	1837	3	US-09-363-745-4
22	200.2	7.4	237	3	US-09-191-136-29
23	199.4	7.4	1499	3	US-09-191-608-16
24	198.8	7.4	1034	4	US-09-949-016-3378
25	198.8	7.4	1034	4	US-09-949-016-3379
26	168.6	6.3	1243	3	US-09-191-136-15
27	165.4	6.1	1456	4	US-09-949-016-366

28	156.2	5.8	1272	3	US-09-191-136-13	Sequence 13, Appl
29	155.4	5.8	1349	3	US-09-191-608-15	Sequence 15, Appl
30	155.4	5.8	1753	2	US-08-750-134A-8	Sequence 8, Appl
31	155.4	5.8	1753	3	US-09-363-745-8	Sequence 8, Appl
32	144.4	5.4	1156	4	US-09-949-016-1705	Sequence 1705, Ap
33	144.4	5.4	1156	4	US-09-949-016-1706	Sequence 1706, Ap
34	131.2	4.9	961	4	US-09-023-655-370	Sequence 370, App
35	115.8	4.3	1023	4	US-09-949-016-4714	Sequence 4714, Ap
36	103.8	3.9	1853	3	US-08-842-079-19	Sequence 19, Appl
37	103.8	3.9	1853	3	US-09-638-857-19	Sequence 19, Appl
38	99.8	3.7	3540	3	US-08-842-079-16	Sequence 16, Appl
39	99.8	3.7	3540	4	US-09-638-857-16	Sequence 16, Appl
40	94	3.5	94	3	US-09-191-136-18	Sequence 18, Appl
41	92.4	3.4	394	3	US-09-191-136-27	Sequence 27, Appl
42	90.4	3.4	878	1	US-07-915-934-3	Sequence 3, Appl
43	90.4	3.4	878	1	US-08-325-743-3	Sequence 3, Appl
44	83.2	3.1	531	3	US-09-191-608-8	Sequence 8, Appl
45	66.4	2.5	25370	4	US-09-949-016-12109	Sequence 12109, A

ALIGNMENTS

RESULT 1

US-09-381-681-2  
; Sequence 2, Application US/09381681  
; Patent No. 6255472  
; GENERAL INFORMATION:  
; APPLICANT: TAKINO, Takashi  
; APPLICANT: NAKAMURA, Yusuke  
; TITLE OF INVENTION: HUMAN GENES  
; FILE REFERENCE: Q55876  
; CURRENT APPLICATION NUMBER: US/09/381,681  
; CURRENT FILING DATE: 2000-01-10  
; EARLIER APPLICATION NUMBER: JPA 9-093044  
; EARLIER FILING DATE: 1997-03-26  
; NUMBER OF SEQ ID NOS: 9  
; SOFTWARE: Patentin Ver. 2.1  
; SEQ ID NO 2  
; LENGTH: 1697  
; TYPE: DNA  
; ORGANISM: Human  
; FEATURE:  
; NAME/KEY: CDS  
; LOCATION: (46)..(1338)  
US-09-381-681-2

Query Match	56.3%	Score 1515.4;	DB 3;	Length 1697;
Best Local Similarity	99.6%	Pred. No. 0;		
Matches 1512;	Conservative	0;	Mismatches 6;	Indels 0;
Gaps 0;				
QY	97	GTGGGCTCTCTCGCCAAAAGGCTACCGAGCGGGACCTGGAAACCCAGTTTCCAT	156	
DB	180	GTGGGCGCTCTCTCGCCAAAAGGCTACCGAGCGGGACCTGGAAACCCAGTTTCCAT	239	
QY	157	CATCACCAAACTCAAAGGGTTTCGTCACTCAGATCAAGAGCTGGAAACCCAGCTGTG	216	
DB	240	CATCACCAAACTCAAAGGGTTTCGTCACTCAGATCAAGAGCTGGAAACCCAGCTGTG	299	
QY	217	GGATGCGCGACTTCGTGAAGCCCTCAGGAGAGACGTGTTCTTCTGTTGACCAA	276	
DB	300	GGATGCGCGACTTCGTGAAGCCCTCAGGAGAGACGTGTTCTTCTGTTGACCAA	359	
QY	277	CTTCTTGTGACGCGCAGCCCAAGTTTCAGGGCAGATGCCAGAGCACCCCTCGTCCCACT	336	
DB	360	CTTCTTGTGACGCGCAGCCCAAGTTTCAGGGCAGATGCCAGAGCACCCCTCGTCCCACT	419	
QY	337	GGCTAACTGCTGGTTCGACGAGACTGCCCCGAGGGAGGAGGACACACAGCCACGG	396	
DB	420	GGCTAACTGCTGGTTCGACGAGACTGCCCCGAGGGAGGAGGACACACAGCCACGG	479	
QY	397	TGTAAAAACAGCCCAAGTGTGTTGTTTCAATGGGACCCACAGACCTGTGAGATCTGGAG	456	



Db 540 TTGGTGGCCAGTGGAGAGTGGCGTTGTGCGCTCGAGGCCCTCTGGGCCCGCCAGCA 599  
Qy 517 CTTCACTGTTTCATCAAAACACAGTCACTTCAGCAAGTTCAACTTCTCTAAGTCCAA 576  
Db 600 CTTCACTGTTTCATCAAAACACAGTCACTTCAGCAAGTTCAACTTCTCTAAGTCCAA 659  
Qy 577 TGCCTTGGAGACTGGGACCCCACTATTTTAAAGCACTGCGCTATGAACCAATTCAG 636  
Db 660 TGCCTTGGAGACTGGGACCCCACTATTTTAAAGCACTGCGCTATGAACCAATTCAG 719  
Qy 637 CCCCTACTGTCCTGCTTCCGCAATTTGGGACCTCTGCGCAAGGCTGGAGGACCTTCGA 696  
Db 720 CCCCTACTGTCCTGCTTCCGCAATTTGGGACCTCTGCGCAAGGCTGGAGGACCTTCGA 779  
Qy 697 GGAACCTGGCTTGGCTGGGCTCTGTAGGCATCAGAGTTCACTGGATTTGACCTCGA 756  
Db 780 GGAACCTGGCTTGGCTGGGCTCTGTAGGCATCAGAGTTCACTGGATTTGACCTCGA 839  
Qy 757 CACCGGGGACTCTGGCTGCTGCGCTCACTACTCTTCAGCTGCAGGAGAGAGCTACAA 816  
Db 840 CACCGGGGACTCTGGCTGCTGCGCTCACTACTCTTCAGCTGCAGGAGAGAGCTACAA 899  
Qy 817 CTTCAAGGACAGCACTCACTGCTGGGAGCAACCGGCTGTGGAGGCCCGCACCTCTCAA 876  
Db 900 CTTCAAGGACAGCACTCACTGCTGGGAGCAACCGGCTGTGGAGGCCCGCACCTCTCAA 959  
Qy 877 GCTCTATGAATCCGCTTCGACATCTCTGTCACCGGGCAGGAGGAGGTTTCGGGCTCAT 936  
Db 960 GCTCTATGAATCCGCTTCGACATCTCTGTCACCGGGCAGGAGGAGGTTTCGGGCTCAT 1019  
Qy 937 CCCCAGGCGCTCACTGGGCAACCGGGGACGTTGGCTGGGCGTGGTCACTTTTCTG 996  
Db 1020 CCCCAGGCGCTCACTGGGCAACCGGGGACGTTGGCTGGGCGTGGTCACTTTTCTG 1079  
Qy 997 TGACCTGCTACTGCTGTATGTGGATAGAGAGCCCACTTCTACTGGAGCAAGATAGA 1056  
Db 1080 TGACCTGCTACTGCTGTATGTGGATAGAGAGCCCACTTCTACTGGAGCAAGATAGA 1139  
Qy 1057 GGAGGCCAAGGCCCGGAAAGCAACCGCACTCTGTGTGGAGGAGTGGCCCTTGCATC 1116  
Db 1140 GGAGGCCAAGGCCCGGAAAGCAACCGCACTCTGTGTGGAGGAGTGGCCCTTGCATC 1199  
Qy 1117 CCAAGCCGACTGGCGAGTGTCTCAGACGGAGCTCAGCACTGCAACCCACCGGCACTGC 1176  
Db 1200 CCAAGCCGACTGGCGAGTGTCTCAGACGGAGCTCAGCACTGCAACCCACCGGCACTGC 1259  
Qy 1177 TGCTGGGAGTCAGACACAGACACCGAGTGGCCCTGTCCAGTTCCTGACACCACTTGC 1236  
Db 1260 TGCTGGGAGTCAGACACAGACACCGAGTGGCCCTGTCCAGTTCCTGACACCACTTGC 1319  
Qy 1237 AACCCATTCCGGGAGCTGTAGCC 1260  
Db 1320 AACCCATTCCGGGAGCTGTAGCC 1343

## RESULT 3

US-09-381-681-1  
; Sequence 1, Application US/09381681  
; Patent No. 6255472  
; GENERAL INFORMATION:  
; APPLICANT: TAKINO, Takashi  
; APPLICANT: NAKAMURA, Yusuke  
; TITLE OF INVENTION: HUMAN GENES  
; FILE REFERENCE: Q55876  
; CURRENT APPLICATION NUMBER: US/09/381,681  
; CURRENT FILING DATE: 2000-01-10  
; EARLIER APPLICATION NUMBER: JPA 9-093044  
; EARLIER FILING DATE: 1997-03-26  
; NUMBER OF SEQ ID NOS: 9  
; SOFTWARE: PatentIn Ver. 2.1  
; SEQ ID NO 1  
; LENGTH: 1293  
; TYPE: DNA  
; ORGANISM: Human  
US-09-381-681-1  
Query Match 42.9%; Score 1155.8; DB 3; Length 1293;  
Best Local Similarity 99.8%; Pred. No. 5.3e-287;  
Matches 1157; Conservative 0; Mismatches 2; Indels 0; Gaps 0;  
Qy 97 GTGGGCTCTCTCGCCAAAAGAGGTACAGAGAGGGGACCTGGAAACCCAGTTTCCAT 156  
Db 135 GTGGGCGCTCTCTCGCCAAAAGAGGTACAGAGAGGGGACCTGGAAACCCAGTTTCCAT 194  
Qy 157 CATCACCAAACTCAAGAGGTTTCCGTCACATCAAGAGCTTTGGAACCCGCGCTG 216  
Db 195 CATCACCAAACTCAAGAGGTTTCCGTCACATCAAGAGCTTTGGAACCCGCGCTG 254  
Qy 217 GGAATGGCCCACTTTCGTGAAGCCCACTCAGGAGAGAACTGTGTTCTTCTTGGTGA 276  
Db 255 GGAATGGCCCACTTTCGTGAAGCCCACTCAGGAGAGAACTGTGTTCTTCTTGGTGA 314  
Qy 277 CTTCTTGTGAGCGCAGGCCCAAGTTTCAGGAGAGATGCCAGAGACCCGTCGTCCTCAT 336  
Db 315 CTTCTTGTGAGCGCAGGCCCAAGTTTCAGGAGAGATGCCAGAGACCCGTCGTCCTCAT 374  
Qy 337 GGTAACTGCTGGTTCGAGGAGTCTGCCGAGAGGGGAGGACACACAGCCACCG 396  
Db 375 GGTAACTGCTGGTTCGAGGAGTCTGCCGAGAGGGGAGGACACACAGCCACCG 434  
Qy 397 TGTAAAAACAGGCCAGTGTGTGTGTTCATATGGGACCCACAGGACCTGTGAGATCTGGAG 456  
Db 435 TGTAAAAACAGGCCAGTGTGTGTGTTCATATGGGACCCACAGGACCTGTGAGATCTGGAG 494  
Qy 457 TTGGTGCCTGAGAGTGGCGTTGTGCTTCGAGGCGCCCTGTGCGCCAGGCCAGAA 516  
Db 495 TTGGTGCCTGAGAGTGGCGTTGTGCTTCGAGGCGCCCTGTGCGCCAGGCCAGAA 554  
Qy 517 CTTCACTGTTTCATCAAAACACAGTCACTTTCAGCAAGTTTCACTTCTTAAGTCCAA 576  
Db 555 CTTCACTGTTTCATCAAAACACAGTCACTTTCAGCAAGTTTCACTTCTTAAGTCCAA 614  
Qy 577 TGCCTTGGAGACTGGGACCCCACTATTTTAAAGCACTGCGCTATGAACCAATTCAG 636  
Db 615 TGCCTTGGAGACTGGGACCCCACTATTTTAAAGCACTGCGCTATGAACCAATTCAG 674  
Qy 637 CCCCCTACTGTCCTGCTTCCGCAATTTGGGACCTCTGTGCAAGGCTGGAGGACCTTCA 696  
Db 675 CCCCCTACTGTCCTGCTTCCGCAATTTGGGACCTCTGTGCAAGGCTGGAGGACCTTCA 734  
Qy 697 GGAACCTGGGCTGCTGGGCTGCTGTAGGCACTCAGATTCACCTGGGATTTGACCTGGA 756  
Db 735 GGAACCTGGGCTGCTGGGCTGCTGTAGGCACTCAGATTCACCTGGGATTTGACCTGGA 794  
Qy 757 CACCGGGGACTCTGGCTGCTGGCCCTCACTACTCTTCCAGCTGCAGGAGAGAGCTACAA 816  
Db 795 CACCGGGGACTCTGGCTGCTGGCCCTCACTACTCTTCCAGCTGCAGGAGAGAGCTACAA 854  
Qy 817 CTTCAAGGACAGCACTCACTGGTGGGAGCAACCGGCTGTGGAGGCCCGCACCTTGTCAA 876  
Db 855 CTTCAAGGACAGCACTCACTGGTGGGAGCAACCGGCTGTGGAGGCCCGCACCTTGTCAA 914  
Qy 877 GCTCTATGAATCCGCTTTCGACATCTCTGTCACCGGGCAGGAGGAGTTCGGGCTCAT 936  
Db 915 GCTCTATGAATCCGCTTTCGACATCTCTGTCACCGGGCAGGAGGAGTTCGGGCTCAT 974  
Qy 937 CCCCAGGCGGTCACACTGGGCAACCGGGGAGCTTGGCTGGGCGTGGTCACTTTTCTG 996  
Db 975 CCCCAGGCGGTCACACTGGGCAACCGGGGAGCTTGGCTGGGCGTGGTCACTTTTCTG 1034  
Qy 997 TGACCTGCTACTGCTGTATGTGGATAGAGAACCCCACTTCTACTGGAGGACAAAGTATGA 1056  
Db 1035 TGACCTGCTACTGCTGTATGTGGATAGAGAACCCCACTTCTACTGGAGGACAAAGTATGA 1094  
Qy 1057 GGAGGCCAAGGCCCGGAAAGCAACCGCACTCTGTGTGGAGGAGTGGCCCTTGCATC 1116

Db 1095 GGAGGCCAAGGCCCGCAACCAACCCCAACTCTGTGTGGAGGAGCTGGCCCTTGCATC 1154  
QY 1117 CCAAGCCCGACTGGCCGAGTGGCTCAGACGGAGCTCAGCACTGCACCCACGGCCACTGC 1176  
Db 1155 CCAAGCCCGACTGGCCGAGTGGCTCAGACGGAGCTCAGCACTGCACCCACGGCCACTGC 1214  
QY 1177 TGTGGGAGTCAACACAGACACCAAGATGGCCCTGTCCAAGTCTTGACACCCACTTGGC 1236  
Db 1215 TGTGGGAGTCAACACAGACACCAAGATGGCCCTGTCCAAGTCTTGACACCCACTTGGC 1274  
QY 1237 AACCCATTCCGGAGCCTG 1255  
Db 1275 AACCCATTCCGGAGCCTG 1293

RESULT 4  
US-09-191-136-28  
; Sequence 28, Application US/09191136B  
; Patent No. 6214581  
; GENERAL INFORMATION:  
; APPLICANT: Abbott Laboratories  
; APPLICANT: Lynch, Kevin J.  
; APPLICANT: Burgard, Edward C.  
; APPLICANT: Van Biesen, T.  
; TITLE OF INVENTION: Nucleic Acids Encoding A Functional  
; TITLE OF INVENTION: Human Purinoreceptor P2X3 and P2X6 And Methods Of Production  
; TITLE OF INVENTION: And Use Thereof  
; FILE REFERENCE: 6293 US.P1  
; CURRENT APPLICATION NUMBER: US/09/191,136B  
; CURRENT FILING DATE: 1998-11-13  
; EARLIER APPLICATION NUMBER: US 09/008,526  
; EARLIER FILING DATE: 1998-01-16  
; EARLIER APPLICATION NUMBER: US 09/008,185  
; EARLIER FILING DATE: 1998-01-16  
; EARLIER APPLICATION NUMBER: US 60/071,298  
; EARLIER FILING DATE: 1998-01-16  
; EARLIER APPLICATION NUMBER: US 60/071,669  
; EARLIER FILING DATE: 1998-01-16  
; NUMBER OF SEQ ID NOS: 32  
; SOFTWARE: FastSeq for Windows Version 3.0  
; SEQ ID NO 28  
; LENGTH: 396  
; TYPE: DNA  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Sequencing Primer  
US-09-191-136-28

Query Match 14.6%; Score 394.4; DB 3; Length 396;  
Best Local Similarity 99.7%; Pred. No. 28-91;  
Matches 395; Conservative 0; Mismatches 1; Indels 0; Gaps 0;  
QY 886 AATCGCTTCGACATCTCGTCAACCGGCGAGGAGGAGTTCGGCTCATCCCAACGGC 945  
Db 1 AATCGCTTCGACATCTCGTCAACCGGCGAGGAGGAGTTCGGCTCATCCCAACGGC 60  
QY 946 CGTCACTATGGGCAACCGGCGAGTTCGGCTGGGCTGGTCACTTTTCTGTGACTGCT 1005  
Db 61 CGTCACTATGGGCAACCGGCGAGTTCGGCTGGGCTGGTCACTTTTCTGTGACTGCT 120  
QY 1006 ACTGCTGTATGTGATAGAGAGCCCACTTCTACTGAGGAGCAAAAGTATGAGAGGCCAA 1065  
Db 121 ACTGCTGTATGTGATAGAGAGCCCACTTCTACTGAGGAGCAAAAGTATGAGAGGCCAA 180  
QY 1066 GSCCCCGAAGCAACCGCAACTCTGTGTGGAGGAGTTCGGCTTCGATCCCAAGCCCG 1125  
Db 181 GSCCCCGAAGCAACCGCAACTCTGTGTGGAGGAGTTCGGCTTCGATCCCAAGCCCG 240  
QY 1126 ACTGCGCGAGTGCCTCAGACGGAGCTCAGCACTGCACCCACGGCCACTGCTGCTGGGAG 1185  
Db 241 ACTGCGCGAGTGCCTCAGACGGAGCTCAGCACTGCACCCACGGCCACTGCTGCTGGGAG 300  
QY 1186 TCAGACACAGACACAGGATGGCCCTGTCTCAAGTCTTGACACCCCACTTGGCCACCCATTC 1245

Db 301 TCAGACACAGACACAGGATGGCCCTGTCTCAAGTCTTGACACCCCACTTGGCCACCCATTC 360  
QY 1246 CGGAGCCTGTAGCCGTTCCCTGCTGCTGTGAGATT 1281  
Db 361 CGGAGCCTGTAGCCGTTCCCTGCTGCTGTGAGATT 396

RESULT 5  
US-09-949-016-367  
; Sequence 367, Application US/09949016  
; Patent No. 6812339  
; GENERAL INFORMATION:  
; APPLICANT: VENTER, J. Craig et al.  
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED  
; TITLE OF INVENTION: WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF  
; FILE REFERENCE: CLO01307  
; CURRENT APPLICATION NUMBER: US/09/949,016  
; CURRENT FILING DATE: 2000-04-14  
; PRIOR APPLICATION NUMBER: 60/241,755  
; PRIOR FILING DATE: 2000-10-20  
; PRIOR APPLICATION NUMBER: 60/237,768  
; PRIOR FILING DATE: 2000-10-03  
; PRIOR APPLICATION NUMBER: 60/231,498  
; PRIOR FILING DATE: 2000-09-08  
; NUMBER OF SEQ ID NOS: 207012  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 367  
; LENGTH: 1978  
; TYPE: DNA  
; ORGANISM: Human  
US-09-949-016-367

Query Match 9.0%; Score 243.6; DB 4; Length 1978;  
Best Local Similarity 58.3%; Pred. No. 2.8e-52;  
Matches 501; Conservative 0; Mismatches 329; Indels 30; Gaps 3;  
QY 98 TGGGCTCTCTCGCCCAAAAAGGCTTACCAGAGCGGGACCTGGAAACCCCACTTTTCCATC 157  
Db 175 TGGGTGTTCTGTATATAAGAGGTTTACCAAGCGTCGACACTCCCTCGAGAGTCTGTC 234  
QY 158 ATCAACAACTCAAAGGGTTTCCTCACTCAGATCAAGAGAGTTCGAAACCGGCTGTGG 217  
Db 235 ATCAACAAAGTCAAGGGGCTGGCTTACCAACACCTTCGGATCTTGGCAGCGGATCTGG 294  
QY 218 GATGTGGCGGACTTCGTGAAGCCACCTCAGGAGGAGACGTTCTTCTTGGTGACCAAC 277  
Db 295 GATGTGGCGGACTTCGTGAAGCCACCTCAGGAGGAGACGTTCTTCTTGGTGACCAAC 354  
QY 278 TTCTTTGTGAGCCGACCAAGTTTCAGGGCAGATGCCCGAGAGCACCCCTCGTCCCACTG 337  
Db 355 CTGATTGTGACCCCAACCCAGCGGAGAACGTCCTGTGTGAGATGAAGGCATTCCTGAT 414  
QY 338 GCTAACTGTGGTGTGAGAGGACTGCCCGAAGGGAGGAGGACACACAGCCACCGT 397  
Db 415 GCGCGTGTCTCAAGAGCAGCGACTGCCACGCTGGGGAAGCGTTTACAGCTGGAAACGGA 474  
QY 398 GTAAAAACAGGCCAGTGTGTGTG---TTCAATGGGACCCACAGACCTGTGAGATCTGG 454  
Db 475 GTGAAGACCGGCGCTGCTGCGGAGAGGAGAACTTGGCCAGGGGACCTGTGAGATCTTT 534  
QY 455 AGTTGGTCCAGTGGAGAGTGGCGTTGTGCTTCGAGGCCCTGCTGGCCCGAGGCCAG 514  
Db 535 GCCTGGTCCCGTTGGAGACAAGCTCCAGGCGCGGAGGAGCCATTCCTGAAGGAGGCCGA 594  
QY 515 AACTTCACACTGTTTCATCAAAAAACACAGTCACTTTCAGCAAGTTCACCTTCTTAAGTCC 574  
Db 595 GACTTTCACCATTTTCATAAAGAACCAACATCGCTTTCGCCAAATTCACCTTCTCCAAAAC 654  
QY 575 AATGCTTGGAGACTGGGACCCACACCTTATTTAAGCACTCCCGCTATGAACCAACATTC 634  
Db 655 AATGTGATGAGCGTCAAGGACAGATCTTCTCTGAATCATGCCACTTGTGGCCCGCAG--- 711

Qy	635	AGCCCTACTGCTCCGGTGTTCGGCATTTGGGAGACTCTGGCGCAAGCTCTGGAGGAGCACTTC	694
Db	712	AACCACTACTGCCCCCATCTTCCGACTGGGCTCCATCGTCGCTGGCGGGAGCGACTTC	771
Qy	695	GAGGACCTGGCGTGTCTGGGTGGCTCTGTAGGCGATCAGAGTTCACTGGGATTGTGACCTG	754
Db	772	CAGGATATAGCCCTGCGAGGTGGCGTGATAGGAATTAATA TTGAATGGAACCTGTGATCTT	831
Qy	755	GACACGGGGGACTCTGGCTGTGGCTTCACTACTCTCTTCAGCTGCAGGAGAAGA-----	809
Db	832	GATAAAGCTGCCTCTGAGTGCACCCCTCACTATTCTTTTACGGGTCTGGA CAATAAACTT	891
Qy	810	-----GCTACAACCTTCAGGACAGCCACTCACTGTGTGGGAGCAACCG	850
Db	892	TCAAAGTCTGTCTCTCCGCGGTA CAACTTCAGATTGCGCAGATATTACCGAGAGCGAGCC	951
Qy	851	GGTGTGGAGGCCCGCACCCCTGCTCAAGCTCTATGGAATCGCGTTCGACATCCTCGTCAAC	910
Db	952	GGGGTGGAGTTCCGACCCCTGATGAAAGCCTACGGGATCCCGCTTTGACGTGATGTGAAC	1011
Qy	911	GGGCAGGCAGGGGAAGTTCCG	930
Db	1012	GGCAAGGGTGTCTTCTTCTG	1031

## RESULT 6

```

US-09-016-434-831
; Sequence 831, Application US/09016434
; Patent No. 6500938
; GENERAL INFORMATION:
; APPLICANT: Janice Au-Young
; APPLICANT: Jeffrey J. Seilhamer
; TITLE OF INVENTION: COMPOSITION FOR THE DETECTION OF SIGNALING
; TITLE OF INVENTION: PATHWAY GENE EXPRESSION
; NUMBER OF SEQUENCES: 1490
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: INCYTE PHARMACEUTICALS, INC.
; STREET: 3174 PORTER DRIVE
; CITY: PALO ALTO
; STATE: CALIFORNIA
; COUNTRY: USA
; ZIP: 94304
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Word Perfect 6.1 for Windows/MS-DOS 6.2
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/016,434
; FILING DATE: HERewith
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER:
; FILING DATE:
; CLASSIFICATION:
; ATTORNEY/AGENT INFORMATION:
; NAME: Zeller, Karen J.
; REGISTRATION NUMBER: 37,071
; REFERENCE/DOCKET NUMBER: PA-0002 US
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (650) 855-0555
; TELEFAX: (650) 845-4166
; INFORMATION FOR SEQ ID NO: 831:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 1750 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; IMMEDIATE SOURCE:
; LIBRARY: SCORNO701
; CLONE: 555697
US-09-016-434-831

```

## RESULT 7

RESUB /  
IIS-08-742-621-2

US-08-742-021-2 : Sequence 2 Application IIS/08742621

SEQUENCE 2, APPLIE  
PATENT NO. 5856129

GENERAL INFORMATION:  
 APPLICANT: HILLMAN, JENNIFER L.  
 APPLICANT: COLEMAN, ROGER  
 TITLE OF INVENTION: NOVEL HUMAN PURINOCCEPTOR  
 NUMBER OF SEQUENCES: 5  
 CORRESPONDENCE ADDRESS:  
 ADDRESSEE: Incyte Pharmaceuticals, Inc.  
 STREET: 3174 Porter Drive  
 CITY: Palo Alto  
 STATE: CA  
 COUNTRY: US  
 ZIP: 94304  
 COMPUTER READABLE FORM:  
 MEDIUM TYPE: Diskette  
 COMPUTER: IBM Compatible  
 OPERATING SYSTEM: DOS  
 SOFTWARE: FastSeq Version 1.5  
 CURRENT APPLICATION DATA:  
 APPLICATION NUMBER: US/08/742,621  
 FILING DATE: Filed Herewith  
 PRIOR APPLICATION DATA:  
 APPLICATION NUMBER:  
 FILING DATE:  
 ATTORNEY/AGENT INFORMATION:  
 NAME: Billings, Lucy J.  
 REGISTRATION NUMBER: 36,749  
 REFERENCE/DOCKET NUMBER: PF-0147 US  
 TELECOMMUNICATION INFORMATION:  
 TELEPHONE: 415-855-0555  
 TELEFAX: 415-845-4166  
 INFORMATION FOR SEQ ID NO: 2:  
 SEQUENCE CHARACTERISTICS:  
 LENGTH: 1762 base pairs  
 TYPE: nucleic acid  
 STRANDEDNESS: single  
 TOPOLOGY: linear  
 MOLECULE TYPE: cDNA  
 IMMEDIATE SOURCE:  
 LIBRARY:  
 CLONE: CONSENSUS  
 US-08-742-621-2

Query Match 8.8%; Score 239.2; DB 2; Length 1762;  
 Best Local Similarity 56.3%; Pred. No. 3.6e-51;  
 Matches 529; Conservative 0; Mismatches 378; Indels 33; Gaps 3;  
 QY 152 TCCATCATCAACAACTCAAGGGGTTTCCGTCACATCAAGAGCTTGGAACCGG 211  
 Db 214 TCCGTTACACCAAGTCAAGGCGGTGGCTGTGACCAACACTTCTAAACTTGGATTCCGG 273  
 QY 212 CTGTGGGATGTGGCGGACTTCGTGAAGCCACCTCAGGAGAGAGAGTGTCTTCTTGTG 271  
 Db 274 ATCTGGGATGTGGCGGATTATGTATACAGCTCAGGAGGAAACTCCCTCTTCTGTCATG 333  
 QY 272 ACCAATCTCTGTGAGCGCCAGCCCAAGTTTCAAGGAGATGCCAGAGACCCCGTCCGTC 331  
 Db 334 ACCAAGTGTATCTCACCATTGAACCAAGACACAGGCGCTGTGCCCGGAGATTCTCAGAT 390  
 QY 332 CCACTGGCTAACTGCTGGGTGACAGGAGTCCCGGAGGAGGAGGAGGACACACAGC 391  
 Db 391 GCGACACTGTGTAAATCAGATGCCAGCTGTACTCCCGGCTCTGCCGCGACCCACACAGC 450  
 QY 392 CACGGTGTAAACAGGCGGAGTGTGTGTGTTCAATGGGACCCACAGGACCTGTGAGATC 451  
 Db 451 AACGGAGTCTCAACAGGCGAGTGGTAGTCTTCAACGGGTCCGTCAAGACGTGTGAGGTG 510  
 QY 452 TGGAGTTGGTCCGAGTGAGAGTGGC---GTTGTGCCCTCGAGGCGCCCTGTGTCGCCAG 508  
 Db 511 GCGGCGCTGGTGGCGGTGGAGGATGACACACAGTGCACCAACTCTGCTTTTAAAGGCT 570  
 QY 509 GCGCAGAACTTCACACTGTTTCAATAAACAACAGTCACCTTCAGCAAGTTCAACTTCTCT 568  
 Db 571 GCAGAAACTTCACCTCTTTTGGTTAAGAACAACTCTGGTATCCCAAAATTTAATTTCAGC 630

QY 569 AAGTCCAATGCTTGGAGACCTGGGACCCCACTATTTTAAGCACTGCCGCTATGAACA 628  
 Db 631 AAGAGGATATCTTCCCAACATACACACTATTACCTCAAGTCGTGATTTATGATGT 690  
 QY 629 CAATTCAGCCCTACTGTCCCGTGTTCGCGATTTGGGACCTCGTGGCCCAAGCTGGAGGG 688  
 Db 691 AAAACAGATCCCTTCTGCCCCATATTCGCTCTTGCAAAATAGTGGAGAACGACGACAC 750  
 QY 689 ACCTTCGAGGACCTGGCGTTGCTGGGTGGCTCTGTAGGCATCAGAGTTCACTGGGATGT 748  
 Db 751 AGTTTCCAGGACATGGCCGTGGAGGGAGGCATCATGGGCATCCAGGTCAACTGGGACTGC 810  
 QY 749 GACCTGGACACCGGGGACTCTGGCTGTGGCTCACTACTCTCTTCAGTGTGAGGAGA-- 806  
 Db 811 AACCTGGACAGAGCCGCTCCCTCTGCTTGGCCAGGTACTCTCTTCGCGCGCTCATACA 870  
 QY 807 -----AGAGCTAACACTTCAGGACAGCACTCACTGGTGG 841  
 Db 871 CGGGAGCTTGAGCACAAAGTATCTCTGGCTACAATTTCAAGTTTGCACAGTACTACAGA 930  
 QY 842 GAGCAACCGGTGTGGAGCGCGCACCTGCTCAAGCTCTATGGAATCGCTTCGACATC 901  
 Db 931 GACCTGGCTGGCAACGAGCGCACGCTCATCAAGGCTATGGCATCCGCTTCGACATC 990  
 QY 902 CTCGTCAACCGGCGAGGAGGAAAGTTCCGGGCTCATCCCAAGGCGCTCAGCTGGGCGAC 961  
 Db 991 ATTGTGTTTGGAGGCGAGGAAATTTGACATCATCCCACTATGATCAACATCGGCTCT 1050  
 QY 962 GGGGCGAGTGGTGGGCGTGTCACTTTTCTGTGACCTGCTGCTACTGCTGATGTGAT 1021  
 Db 1051 GCGCTGGCACTGTAGGCATGGCGACCGTGTGTGACATCATAGTCTCTACTGCTATG 1110  
 QY 1022 AGAGAGGCCATTTCTACTTGGAGGACAAAGTATGAGGAGG 1061  
 Db 1111 AGAAAAGACTCTACTATCGGGAGAGAAATATAAATATG 1150

## RESULT 8

US-09-191-608-21  
 ; Sequence 21, Application US/09191608  
 ; Patent No. 6242216  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Lynch, Kevin J.  
 ; APPLICANT: Burgard, Edward C.  
 ; APPLICANT: Metzger, Randy E.  
 ; APPLICANT: Niforatos, Wende  
 ; APPLICANT: Touma, Edward B.  
 ; APPLICANT: Van Biesen, T.  
 ; TITLE OF INVENTION: Nucleic Acids Encoding a Functional  
 ; TITLE OF INVENTION: Human Purinoreceptor P2X2 and P2X4 And Methods Of Production  
 ; TITLE OF INVENTION: And Use Thereof  
 ; FILE REFERENCE: 6394.US.P1  
 ; CURRENT APPLICATION NUMBER: US/09/191,608  
 ; CURRENT FILING DATE: 1998-11-13  
 ; NUMBER OF SEQ ID NOS: 26  
 ; SOFTWARE: FastSeq for Windows Version 3.0  
 ; SEQ ID NO 21  
 ; LENGTH: 1206  
 ; TYPE: DNA  
 ; ORGANISM: Homo sapiens  
 ; US-09-191-608-21

Query Match 8.8%; Score 237.6; DB 3; Length 1206;  
 Best Local Similarity 56.2%; Pred. No. 7.7e-51;  
 Matches 528; Conservative 0; Mismatches 379; Indels 33; Gaps 3;  
 QY 152 TCCATCATCAACAACTCAAGGGGTTTCCGTCACATCAGATCAAGGAGCTTGGAAACCGG 211  
 Db 207 TCCGTTACGACCAAGTCAAGGCGGTGGCTGTGACCAACTTCTAAACTTGGATTCCGG 266  
 QY 212 CTGTGGGATGTGGCGGACTTCGTGAAGCCACTCAGGAGAGAGAGTGTCTTCTTGTG 271



Db 267 ATCTGGGATGTGGCGGATTAATGTGATACACAGCTCAGGAGGAAAACTCCCTCTTCTGTCATG 326  
QY 272 ACCAACTTCTTGTGACGCGCAGCCCAAGTTTCAGGCGAGATGCCAGAGCACCCGCTCCGTC 331  
Db 327 ACCAAGTGATCTTCCATGACACAGACACAGGCGCTGTGCCCCGAGATTC---CAGAT 383  
QY 332 CCACCTGGCTAACTGTGGTTCAGCAGGACTGCCCGAAGGGGAGGAGGACACACAGC 391  
Db 384 GCGACCACTGTGTAAATCAGATGTCAGCTGTACTGCGCGCTCTGCGCGCACCCACAGC 443  
QY 392 CACGCTGTAAACAGGCGCAGTGTGTGTGTTCAATGGGACCCACAGGACCTGTGAGATC 451  
Db 444 AACGAGTCTCAACAGGCGAGTGTGTGTGTTCAACGGTCCGTCAAGACGTGTGAGGTG 503  
QY 452 TGGAGTGTGGTCCCGCAGTGGAGAGTGGC---GTTGTGCCCTCGAGGCGCCCTGTGCCCCCAG 508  
Db 504 GCGGCTGTGTGCGGCTGGAGGATGACACACAGCTGCCAACCTGTCTTTTAAAGGCT 563  
QY 509 GCCGAGACTTCACTGTTCATCAAAAACACAGTCACTTCAGCAAGTTCAACTTCTCT 568  
Db 564 GCAGAAAATTCCTCTTTTGTGTAAGAACACATCTGGTATCCCAAAATTTAAATTCAGC 623  
QY 569 AAGTCCATGCTTGGAGACTGGGACCCCACTATTTTAAACACTGCGCTATGAACA 628  
Db 624 AAGAGAAATATCTTCCCAACATCACCACTACTTACCTCAAGTGTGCAATTTATGATGT 683  
QY 629 CAATTCAGCCCCCTACTGTCCCGTGTTCGCGATGGGACCTCGTGCCCAAGGCTGGAGG 688  
Db 684 AAAACAGATCCCTCTGCCCCATATTCGCTCTGGCAAAATAGTGGAGAACCGCAGAC 743  
QY 689 ACCTTCGAGGACCTGGCGTGTGTGGTGTCTGTAGGATCAGAGTTCACTTGGGATGT 748  
Db 744 GGTTCACAGCAATGGCGCTGGAGGAGGACATCATGGGCATCCAGGTCAACTGGGACTGC 803  
QY 749 GACCTGGACACCGGAGCTCTGGCTGCTGGCTCACTACTCTCTCCAGTCCAGTCAGGAGA-- 806  
Db 804 AACCTGGACAGAGCGCGCTCTCTGCTGTGCCAGGTACTCTTCCGCGCCTCGATACA 863  
QY 807 -----AGAGCTACAACCTTCAGACACCACTCACTCTGTGG 841  
Db 864 CGGAGCTGTGAGCAACACGTATCTCTCTGCTACAAATTCAGGTTTGGCAAGTACTACAGA 923  
QY 842 GAGCAACCGGTGTGGAGCGCGCACCTCTGCTCAAGCTCATGGAATCCGCTTCGACATC 901  
Db 924 GACCTGGCTGGCAACGAGCAGCGCGACGCTCATCAAGGCTATGGCATCGCTTCGACATC 983  
QY 902 CTCGTCACCGGCGCAGGAGTTCGGGCTCATCCCAAGCGCTCACACTGGGCGACC 961  
Db 984 ATTGTGTTTGGGAGGCGAGGAAATTTGACATCATCCCCCACTATGATCAACATCGGCTCT 1043  
QY 962 GGGGCGAGCTTGGCTGGCGGTGTGCTACCTTTTCTGTGACCTGCTACTGTGTATGTGGAT 1021  
Db 1044 GGCCTGGCACTCTAGGCATGGCGCGCTGTGTGACATCATATGCTCTCTACTGCGATG 1103  
QY 1022 AGAAGAGCCATTTCTACTTGGAGGACAAAGTATGAGGAGG 1061  
Db 1104 AAGAAAAGACTCTACTATCGGAGAGAAATATAAATATG 1143

RESULT 9

US-09-949-016-3548  
; Sequence 3548, Application US/09949016  
; Patent No. 6812339  
; GENERAL INFORMATION:  
; APPLICANT: VENTER, J. Craig et al.  
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED  
; FILE OF INVENTION: WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF  
; FILE REFERENCE: CL001307  
; CURRENT APPLICATION NUMBER: US/09/949,016  
; CURRENT FILING DATE: 2000-04-14  
; PRIOR APPLICATION NUMBER: 60/241,755  
; PRIOR FILING DATE: 2000-10-20  
; PRIOR APPLICATION NUMBER: 60/237,768

; PRIOR FILING DATE: 2000-10-03  
; PRIOR APPLICATION NUMBER: 60/231,498  
; PRIOR FILING DATE: 2000-09-08  
; NUMBER OF SEQ ID NOS: 207012  
; SOFTWARE: PaetSEQ for Windows Version 4.0  
; SEQ ID NO 3548  
; LENGTH: 1389  
; TYPE: DNA  
; ORGANISM: Human  
US-09-949-016-3548

Query Match 8.8%; Score 237.6; DB 4; Length 1389;  
Best Local Similarity 56.2%; Pred. No. 8.3e-51;  
Matches 528; Conservative 0; Mismatches 379; Indels 33; Gaps 3;

QY 152 TCATCATCACCACCAACTCAAAGGGGTTTCGGTCACTCAGATCAAGAGAGCTTCGAAACCGG 211  
Db 214 TCCGTTACGACCAAGGTCAGGGCGTGGCTGTGACCAACACTTCTTAAACTTGGATTCGG 273  
QY 212 CTGTGGGATGTGGCCGACTTCGTGAAGCCACTCCTAGGAGAGAACGTGTCTTCTTGGTG 271  
Db 274 ATCTGGGATGTGGCGGATTAATGTGATACCAAGCTCAGGAGGAAAACTCCCTCTTCTGTCATG 333  
QY 272 ACCAATTCCTTGTGACGCCAGCCCAAGTTTCAGGCGAGATGCCAGAGCACCCGTCCTC 331  
Db 334 ACCAAGCTGATCCTCACCATGAACACAGACACAGGGGCTGTGCCCGGAGATTC---CAGAT 390  
QY 332 CCACCTGGCTAACTGTGGTTCGACGAGGACTGCCCGAAGGGGAGGAGGACACACAGC 391  
Db 391 GGGACCACTGTGTGTAATCAGATGCCAGTGTACTGCCGGCTCTGCCGGACCCACAGC 450  
QY 392 CACGCTGTAAACAAAGGCGAGTGTGTGTGTTCAATGGGACCCACAGGACCTGTGAGATC 451  
Db 451 AACGGAGTCTCAACAGGCGAGTGTGTGTGTTCAACGGGCTCTGTCAAGACGTGTGAGGTG 510  
QY 452 TGGAGTGTGGTCCCGCAGTGGAGAGTGGC---GTTGTGCCCTCGAGGCGCCCTGTGCCCCAG 508  
Db 511 GCGGCTGTGGTCCCGCTGGAGGATGACACACAGTGGCCCAACACCTGCTTTTAAAGGCT 570  
QY 509 GCCAGAACTTCACACTGTTCATCAAAAACACAGTCACCTTCAGCAAGTTCAACTTCTCT 568  
Db 571 GCAGAAAATTCACCTCTTTTGGTTAAGAACACATCTGGTATCCCAATTTAATTCAGC 630  
QY 569 AAGTCCAATGCTTGGAGACCTGGGACCCCACTATTTTAAAGCACTGCGCTATGAACA 628  
Db 631 AAGAGGATATCTTCCCAACATCACCACTACTTACCTCAAGTCGTGCTGATTTATGATGT 690  
QY 629 CAATTCAGCCCTACTGTCCCGTGTTCGCAATGGGACCTCGTGGCCAAAGCTGGAGGG 688  
Db 691 AAAACAGATCCCTCTGCCCCATATTCGCTCTTGGCAAAATAGTGGAGAACCGAGACAC 750  
QY 689 ACCTTCGAGGACCTGGCGTGTGTGGTGTGCTGTAGGCATCAGAGTTCACTGGGATTTGT 748  
Db 751 AGTTTCAGGACATGCGCGTGGAGGAGGACATCGGGCATCCAGGTCACTGGGACTGC 810  
QY 749 GACCTGGACACCGGAGCTTGTGGCTGTGCTGCTCACTACTCTTCCAGCTGAGGAGA-- 806  
Db 811 AACCTGGACAGAGCGCGCTCTCTGCTGTGCCAGGTACTCTCTGCGCGCCTCGATACA 870  
QY 807 -----AGAGCTACAACCTTCAGGACAGCCACTCACTGGTGG 841  
Db 871 CGGAGCTGTGAGCAACACGTATCTCTCGCTACAAATTCAGGTTTGGCCAAAGTACTACAGA 930  
QY 842 GAGCAACCGGTGTGGAGCGCGCACCTCTGCTCAAGCTCATGGAATCCGCTTCGACATC 901  
Db 931 GACCTGGCTGGCAACAGAGCGGACGCTCATCAGGCTATGGCATCCGCTTCGACATC 990  
QY 902 CTCGTCACCGGCGCAGGAGGAGTTCGGGCTCATCCCCAGCGGCTCACACTGGGCGACC 961  
Db 991 ATTGTGTTTGGGAGGCGAGGAAATTTGACATCATCCCCCACTATGATCAACATCGGCTCT 1050  
QY 962 GGGGCGAGCTTGGCTGGCGGTGTGCTACTTTTCTGTGACCTGCTACTGTGTATGTGGAT 1021

Db 1051 GGCTGGCACTGCTAGGCATGGCGACCGCTGCTGTGTGACATCATAGTCTCTACTGCAATG 1110  
QY 1022 AGAAGAGCCCATTTCTACTGGAGGACAAAGATATGAGGAG 1061  
Db 1111 AAGAAAGACTTCTACTATCGGAGAGAAATATAATATG 1150  
RESULT 10  
US-09-949-016-4136  
; Sequence 4136, Application US/09949016  
; Patent No. 6812339  
; GENERAL INFORMATION:  
; APPLICANT: VENTER, J. Craig et al.  
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED  
; WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF  
; FILE REFERENCE: CL001307  
; CURRENT APPLICATION NUMBER: US/09/949,016  
; CURRENT FILING DATE: 2000-04-14  
; PRIOR APPLICATION NUMBER: 60/241,755  
; PRIOR FILING DATE: 2000-10-20  
; PRIOR APPLICATION NUMBER: 60/237,768  
; PRIOR FILING DATE: 2000-10-03  
; PRIOR APPLICATION NUMBER: 60/231,498  
; PRIOR FILING DATE: 2000-09-08  
; NUMBER OF SEQ ID NOS: 207012  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 4136  
; LENGTH: 2597  
; TYPE: DNA  
; ORGANISM: Human  
US-09-949-016-4136

Query Match 8.7%; Score 233.4; DB 4; Length 2597;  
Best Local Similarity 56.7%; Pred. No. 1.4e-49;  
Matches 526; Conservative 0; Mismatches 371; Indels 30; Gaps 4;  
QY 164 AAACCTAAAGGGTTTCCTCTACTCAGATCAAGAGCTTTGGAACCGGCTGTGGATGTG 223  
Db 376 AAACCTAAAGGGCTGGCCGTGAGCCAGCTCCCTGGCCCTCCAGGTCTGGGATGTG 435  
QY 224 GCGGACTTGTGAGCCACTCAGGAGAGACGTGTTCTTTGGTACCACTTCCTT 283  
Db 436 GTGACTACTGTTTCCAGCCAGGGGGGCAACTCCTCTGTTGTCATGACCAATTTTCATC 495  
QY 284 GTGAGCCAGCCCAAGTTTCAGGGCAGATGCCAGAGCACCGCTCGTCCCTGCTCAAC 343  
Db 496 GTGAGCCAGCCAGCAGCTCAGGCTACTGCGAGAGACCC-----AGAGGGGGCATA 549  
QY 344 TGCTGGTTCGACGAGACTGCCCCGAGAGGGAGGAGGACACACAGCCACCGTGTAAAA 403  
Db 550 TGCAAGGAAGACAGTGGCTGTATCCCTGGAAGGCCAGAGAGGCCCAAGGCATCCGC 609  
QY 404 ACAGGCCAGTGTGGTGTTCATGGGACCCACAGACCTGTGAGATCTGGAGTTGGTGC 463  
Db 610 AGGGGCAAGTGTGGCTTTCACAGCAGCTGTGAAGACGTGTGAGATCTTTGGCTGGTGC 669  
QY 464 CCAGTGGAGAGTGGCTTGTGCTCGAGGC---CCCTGTCGGCCAGGCCAGCAACTTC 520  
Db 670 CCGTGGAGGTGGATGACGACATCCCGGCCCTCTCCGAGAGGCCAGAACTTC 729  
QY 521 ACAGTGTTCATCAAAAACAGTCACTACCTTCAGCAAGTTCAACTTCTTAAGTCCAAATGCC 580  
Db 730 ACTCTTTTCATCAAGAACAGCAGTACAGTTTCCAGCTTCAAGGTCAACAGGGCGCAACTG 789  
QY 581 TTGGAGACTGGGAGCCCACTATTTAAGCACTGCGCTATGAACCACTTACGCCCC 640  
Db 790 GTGGAGAGGTGAATGCTGCCCCACATGAAGACCTGCCTTTTCAAGAACCCCTGACCCCC 849  
QY 641 TACTGTCCCGTGTTCGCACTTGGGACCTCGTGGCCAAAGGCTGGAGGACCTTTCAGGAC 700  
Db 850 CTGTGCCAGTCTTCCAGCTTGGCTACGTGGTGTGCAAGAGTCAAGGCCAGCACTTACGACC 909  
QY 701 CTGGCGTGTGGTGGCTCTGTAGGCATCAGAGTTCACTGGGATGTGACCTGGACACC 760

Db 910 CTGGCTGAGAAAGGTGGAGTGGTTGGCATCCATCGACTGGCACTGTGACCTGGACTGG 969  
QY 761 GGGGACTCTGGCTGTGGCTCCTCACTACTCTCTCCAGCTGCGAGGAGAAAG----- 809  
Db 970 CACGTACGGCACTGAGACCCCATCTATGAGTTCCATGGCTGTACGAAAGAAAAATCTC 1029  
QY 810 -----GCTACAACTTCAGGACAGCCACTCACTGGTGGGAGCAACCGGTGTGGAGGCC 862  
Db 1030 TCCCAGGCTTCACTTCAAGTTTCCAGGACACCTTTGTGGAGAAC---GGGACCAACTAC 1086  
QY 863 CGCACCTGCTCAAGCTCTATGGAATCGCTTCGACATCTCGTCAACCGGGCAGGACGG 922  
Db 1087 CGTCACTCTTCAAGGTGTGGGATTCGCTTTGACATCTCTGGTGGACGGCAAGCCCGG 1146  
QY 923 AGTTTCGGGCTCATCCCCACGGCCGTCACACTGGGACCGGGGACGCTTGGCTGGCGGTG 982  
Db 1147 AGTTTGGACATCATCCCTACAAATGACACCATCGCTCTGGAATTTGGCATCTTTGGG 1206  
QY 983 GTCACTTTTCTGTGACCTGCTACTGCTATGTGATAGAGAGCCCATTTCTACTGG 1042  
Db 1207 GCCACAGTTCTGTGACCTGCTGCTCTCATCTCTGCTTACATCTCTGCTTACAGGCACTTACAA 1266  
QY 1043 AGGACAAAGTATGAGGAGGCCCAAGGCC 1069  
Db 1267 CAGAAAGATTCAAAATACGCTGAGGAC 1293

RESULT 11  
US-08-750-134A-10  
; Sequence 10, Application US/08750134A  
; Patent No. 5985603  
; GENERAL INFORMATION:  
; APPLICANT: VALERA, SOLEDAD  
; TITLE OF INVENTION: P2X RECEPTORS (PURINOCEPTOR FAMILY)  
; NUMBER OF SEQUENCES: 11  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: NIXON & VANDERHYE P.C.  
; STREET: 1100 NORTH GLEBE ROAD  
; CITY: ARLINGTON  
; STATE: VIRGINIA  
; COUNTRY: U.S.A.  
; ZIP: 22201-4714  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: Patent In Release #1.0, Version #1.30  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/750,134A  
; FILING DATE: 22-JAN-1997  
; CLASSIFICATION: 536  
; ATTORNEY/AGENT INFORMATION:  
; NAME: CRAWFORD, ARTHUR C.  
; REGISTRATION NUMBER: 25,327  
; REFERENCE/DOCKET NUMBER: 1430-116  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (703) 816-4006  
; TELEFAX: (703) 816-4100  
; INFORMATION FOR SEQ ID NO: 10:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 2643 base pairs  
; TYPE: nucleic acid  
; STRANDEDNESS: single  
; TOPOLOGY: linear  
; MOLECULE TYPE: cDNA  
US-08-750-134A-10

Query Match 8.7%; Score 233.4; DB 2; Length 2643;  
Best Local Similarity 56.7%; Pred. No. 1.4e-49;  
Matches 526; Conservative 0; Mismatches 371; Indels 30; Gaps 4;



Db 849 CTGTGCCAGTCTTCCAGCTTGGTACGTGGTGAAGAGTCAAGCCAGAGCTTCAAGCACC 908  
QY 701 CTGGGCTTCTGGTGGTCTCTAGGATCATAGATTCAGTGGATGTGACCTGACACC 760  
Db 909 CTGGCTGAAGGGTGGAGTGGTGGATCACCATCGACTGGCACTGTGACCTGGACTGG 968  
QY 761 GGGGACTCTGGCTGGCTCTCACTACTCTTCCAGCTGCGAGGAGAAG----- 809  
Db 969 CAGTACGGCATGAGACCATCTATGATTCATGGCTGTACGAGAGAAAATCTC 1028  
QY 810 -----GCTACAATTCAAGACAGCCACTACTGGTGGAGCAACCGGGTGTGGAGGCC 862  
Db 1029 TCCCGAGGCTTCAACTTCAAGTGTGGAGGCACTTGTGGAGAAC---GGGACCAATAC 1085  
QY 863 CGACCTCTCAAGCTCTATGAAATCCGCTTCGACATCTCTGACCGGGCAGGAGG 922  
Db 1086 CGTCACTCTTCAAGGTGTTGGGATTCGCTTGGATCTCTGTTGACATCTCTGGTGGAGCGG 1145  
QY 923 AAGTTCTGGGCTCATCCCAAGCGCTCACTACCTGGGCAAGCGGGGAGCTTGGCTGGCGGTG 982  
Db 1146 AAGTTTGACATCATCCCTACATGACCATCCGCTCTGGAAATGGCATCTTTGGGGTG 1205  
QY 983 GTCACTTTTCTGTGACCTGCTACTGTGTATGTGATGATGATGATGATGATGATGATG 1042  
Db 1206 GCCACAGTTCTCTGTGACCTGCTGTCTGCTTCACTCTCTGCTTCACTCTCTGCTTCACT 1265  
QY 1043 AGGACAAAGTATGAGGAGGCGCAAGGCC 1069  
Db 1266 CAGAAGAGTTCAATACGCTGAGGAC 1292

## RESULT 13

US-09-023-655-897

Sequence 897, Application US/09023655

Patent No. 6607879

GENERAL INFORMATION:

APPLICANT: Cocks, Benjamin G.

APPLICANT: Susan G. Stuart

APPLICANT: Jeffrey J. Seilhamer

TITLE OF INVENTION: COMPOSITION FOR THE DETECTION OF BLOOD CELL GENE

TITLE OF INVENTION: EXPRESSION

NUMBER OF SEQUENCES: 1508

CORRESPONDENCE ADDRESS:

ADDRESS: INCYTE PHARMACEUTICALS, INC.

STREET: 3174 PORTER DRIVE

CITY: PALO ALTO

STATE: CALIFORNIA

COUNTRY: USA

ZIP: 94304

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: Word Perfect 6.1 for Windows/MS-DOS 6.2

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/09/023,655

FILING DATE: HEREWITH

CLASSIFICATION:

PRIORITY APPLICATION DATA:

FILING DATE:

CLASSIFICATION:

ATTORNEY/AGENT INFORMATION:

NAME: Zeller, Karen J.

REGISTRATION NUMBER: 37,071

REFERENCE/DOCKET NUMBER: PA-0001 US

TELECOMMUNICATION INFORMATION:

TELEPHONE: (650) 855-0555

TELEFAX: (650) 845-4166

INFORMATION FOR SEQ ID NO: 897:

SEQUENCE CHARACTERISTICS:

LENGTH: 2643 base pairs

TYPE: nucleic acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
IMMEDIATE SOURCE:  
LIBRARY: GENBANK  
CLONE: g1166437  
US-09-023-655-897

Query Match 8.7%; Score 233.4; DB 4; Length 2643;

Best Local Similarity 56.7%; Pred. No. 1.4e-49;  
Matches 526; Conservative 0; Mismatches 371; Indels 30; Gaps 4;

QY 164 AAACCTCAAGGGGTTTCGGTCACTCAGATCAAGAGAGCTTGGAAACCGGCTGTGGGATGTG 223  
Db 375 AAACCTCAAGGGGCTGGCGGTGACCCAGCTCCCTGGCTCGGCCCCAGGTCTGGGATGTG 434  
QY 224 GCCGACTTCTGTAAGCCACCTCAGGAGAGAGAGCGTGTCTTCTTGGTGACCAATCTCTT 283  
Db 435 GCTGACTACGTCTTCCAGCCAGGGGAGCAACTCTTCTGTTGATGATGACCAATTTTCATC 494  
QY 284 GTGACCGCAGCCCAAGTTTCAGGGCAGATGCCAGAGCAGCCGTCCTCCCTCCCTGCTAAC 343  
Db 495 GTGACCCCGAAGCAGACTCAAGGCTACTGCGCAGAGCACCC-----AGAGGGGGCATA 548  
QY 344 TGCTGGGTTCGACGAGACTGCCCCGAGGGGAGGAGGACACACAGCCACCGTGTAAAA 403  
Db 549 TGCAAGGAAGACAGTGGCTGTACCCCTGGGAAGGCCAAGAGGAGGCCCAAGGCATCCGC 608  
QY 404 ACAGCCAGTGTGTGTGTTCATATGGGACCCACAGGACCTGTGAGATCTGAGATTTGGTGC 463  
Db 609 ACGGCAAGTGTGTGGCCTTCAACGACACTGTGAAGAGCTGTGAGATCTTTGGCTGTGTGC 668  
QY 464 CCAGTGGAGAGTGGGTTGTGCTTCGAGGC---CCCTGCTGGCCCGAGCCCGAGAACTTC 520  
Db 669 CCCGTGGAGGTGGATGACGACATCCCGCGCCCTCTCCAGAGAGCCGAGAACTTC 728  
QY 521 ACACCTGTTTCATCAAAAAACACAGTCACTTTCAGCAAGTTCAACTTCTTAAGTCCAAATGC 580  
Db 729 ACTCTTTTCATCAAGAACAGCATCAGCTTTCACGCTTCAAGGTCAACAGGGCAACCTG 788  
QY 581 TTGAGACCTGGGACCCACCTATTTAAGCAGTTCGCGCTATGAACCAATTCAGCCCC 640  
Db 789 GTGGAGGAGGTGAATGTGTGCTGCCCCACATGAAGAGCTGCTCTTTTCAAGACCCGTGACCCC 848  
QY 641 TACTGTCCCGTGTTCGCAATTTGGGACCTCTGCGCAAGGCTGGAGGACCTTTCAGGAC 700  
Db 849 CTGTCCCGAGTCTTCCAGCTTGGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 908  
QY 701 CTGGCTTGTGGTGGCTCTGTAGGATCAGAGTTCACTGGGATTTGACCTGGACACC 760  
Db 909 CTGGCTGAGAAAGGTGGAGTGGTGGCATCACCATCGACTGGCACTGTGACCTGGACTGG 968  
QY 761 GGGGACTCTGGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 809  
Db 969 CACGTACGGCACTGAGACCCATCTATGAGTTCCTATGAGTTCCTATGAGTTCCTATGAGTTC 1028  
QY 810 -----GCTACAATTTCAGGACAGCCACTCACTGCTGGGAGCAACCGGGTGTGGAGGCC 862  
Db 1029 TCCCGAGGCTTCAACTTCAAGGTTTGGGATTCGCTTGGAGTTCGCTGCTGCTGCTGCTGCTG 1085  
QY 863 CGCACCTTGTCTAAGCTCTATGGAATCCGCTTTCGACATCTCTGCTGCTGCTGCTGCTGCTGCT 922  
Db 1086 CGTCACTCTTCAAGGTGTGGGATTCGCTTGGAGTTCGCTTGGAGTTCGCTGCTGCTGCTGCTG 1145  
QY 923 AAGTTGGGCTCATCCCGAGCGCTGACATGCGGACCGGGGAGCTTGGCTGGCGGTG 982  
Db 1146 AAGTTTGACATCATCCCTACATGACCACTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1205  
QY 983 GTCACTTTTCTGTGACCTGCTACTGCTGTATGTGATGATGATGATGATGATGATGATGATG 1042  
Db 1206 GCCACAGTTCTCTGTGACCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1265  
QY 1043 AGGACAAAGTATGAGGAGGCGCAAGGCC 1069

```

Db      1266 CAGAAAGAGTTCAAAATACGCTGAGGAC 1292
      || |||| | | | | | | | | | |
RESULT 14
US-09-949-016-365
; Sequence 365, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: CL001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; CURRENT FILING DATE: 2000-04-14
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 365
; LENGTH: 2643
; TYPE: DNA
; ORGANISM: Human
US-09-949-016-365

Query Match      8.7%; Score 233.4; DB 4; Length 2643;
Best Local Similarity 56.7%; Pred. No. 1.4e-49;
Matches 526; Conservative 0; Mismatches 371; Indels 30; Gaps 4;

QY      164 AAACCTCAAGGGGTTTCCTGCTCACTCAGATCAAGGAGCTTGGAAACCGGCTGTGGGATG 223
Db      375 AAACCTCAAGGGGCTGGCCGTGACCCAGCTCCCTGGCTCGGCCCCAGCTGTGGGATG 434
QY      224 GCGGACTTCGTGAAGCACCTCAGGAGAGAAAGTGTTCTTCTTGGTGACCAACTTCCTT 283
Db      435 GCTGACTAGCTTCTCCAGCCAGGGGAGCACTCTCTGGTGATGACCAATTTCTATC 494
QY      284 GTGACGCCAGCCCAAGTTTCAAGGCGAGATGCCAGGACACCGTCCGTCCCACTGGCTAAC 343
Db      495 GTGACCCCGAAGCAGACTCAAGGCTACTCGCAGAGCACCC-----AGAAGGGGGCATA 548
QY      344 TCGTGGTTCGACGAGGACTGCCCGAAGGGGAGGAGGCACACACAGCCACCGTGTAAAA 403
Db      549 TCAAGGAAGACAGTGGCTGTACCCCTGGGAAGGCCAAGAGGACCCCAAGGCATCCGC 608
QY      404 ACAGGCCAGTGTGTGGTGTTCATATGGGACCCACAGGACCTGTGAGATCTGGAGTTGGTGC 463
Db      609 ACGGGCAAGTGTGGCCCTTCAAGGACACTGTGAAGACGTGTGAGATCTTTGGCTGGTGC 668
QY      464 CCAGTGGAGATGGCGTGTGGCTTCGAGGC---CCCTGCTGCCCGAGCCCGCAGAACTTC 520
Db      669 CCGGTGGAGTGGATGACGACATCCCGCGCCCTTCCTCCGAGAGCGCAGAACTTC 728
QY      521 ACAGTGTTCATCAAAACACAGTCACTTTCAAGCACTTCAAGTTCATCTCTAAGTCCCAATGCC 580
Db      729 ACTCTTTTTCATCAAGAACAGATCAGCTTTCAAGCTTCAAGCTTCAAGGTCAGAGGCGCACTGC 788
QY      581 TTGGAGACCTGGGACCCCACTATTTTAAAGCACTGCGCTATGAACCAAAATTCAGCCCC 640
Db      789 GTGGAGAGGTGAATGCTGCTCCACATGAAGACCTGCTCTTTTCAAGACCCCTGCACCCC 848
QY      641 TACTGTCCCGTGTTCGCAATTGGGGAACCTGTGGCCCAAGCTGGAGGACCTTTCAGGAC 700
Db      849 CTGTGCCAGTCTTCCAGCTTGGCTACGTGGTGCAGAGTCAAGAGTCAAGGCGCAGAACTTCAGCACC 908
QY      701 CTGGCGTGTCTGGTGGCTCTGTAGGCATCAGAGTTCACTGGGATGTGACCTGGACACC 760
Db      909 CTGGCTGAGAAAGGGTGAAGTGGTGTGGCATCAACATCAGTGGCACTGTGACCTGGACTGG 968

Query Match      8.6%; Score 231.6; DB 4; Length 1946;
Best Local Similarity 58.1%; Pred. No. 3.4e-49;
Matches 500; Conservative 0; Mismatches 329; Indels 31; Gaps 4;

QY      98 TGGGCTCTCTCGCCCAAAAAGGCTTACAGGAGCGGACCTGGAACCCCAAGTTTTCATC 157
Db      175 TGGGTGTCTCTGATAAAGAGGGTTTACCAAGACGTCGACACCTCCCTCGAGAGTGTCTGC 234
QY      158 ATCACAACAACTCAAAAGGGGTTTCCGCTCACTCAGATCAAGGAGCTTGGAAACCGGCTGTGG 217
Db      235 ATCACAAGAGTCAAGGGGCTGGCCCTTCAACAACTCGGATCTTGGGAGCGGATCTGG 294
QY      218 GATGTGGCGGACTTCGTGAAGCCACCTCAGGGAGAGAACGTGTCTTCTTGTGTGACCAAC 277
Db      295 GATGTGGCGGACTAGCTCATTCAGCCAGGAGAGAGAGCTCTTTTGTGTGTGTCACCAAC 354
QY      278 TTCCTTGTGACCCCAAGCTTCAAGGCGAGATGCCCAAGACCCCTGCTCCCACTG 337
Db      355 CTGATTGTGACCCCA-ACCAGCGGAGAAAGCTCTGTGTGTGAGAAATGAAGGCAATTCCTGAT 413
QY      338 GCTAAGTCTGGGTGAGGAGGACTGCCCGGAAGGGGAGGAGGCACACACAGCCAGCT 397
Db      414 GCGCGTGTCTCAAGGACAGCGACTGCCACGCTGGGGAGAGCGGTTTACAGCTGGAACCGGA 473

RESULT 15
US-09-949-016-4138
; Sequence 4138, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: CL001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; CURRENT FILING DATE: 2000-04-14
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 4138
; LENGTH: 1946
; TYPE: DNA
; ORGANISM: Human
US-09-949-016-4138
```

